

HERBRAND

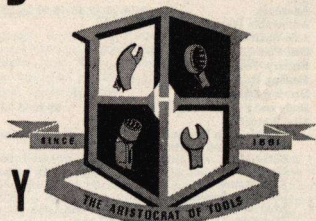
Van-Chrome

QUALITY TOOLS

CATALOG
No. 51-M



MODERNIZED TOOLS OF EXTRA QUALITY



**DISTRICT SALES OFFICES IN ALL
IMPORTANT TRADING AREAS**

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Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Easy Monthly Time Payment Plan.

STOCKED BY LEADING JOBBERS EVERYWHERE

THE HERBRAND CORPORATION
MAIN OFFICE AND FACTORIES · FREMONT, OHIO

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No. 51-M

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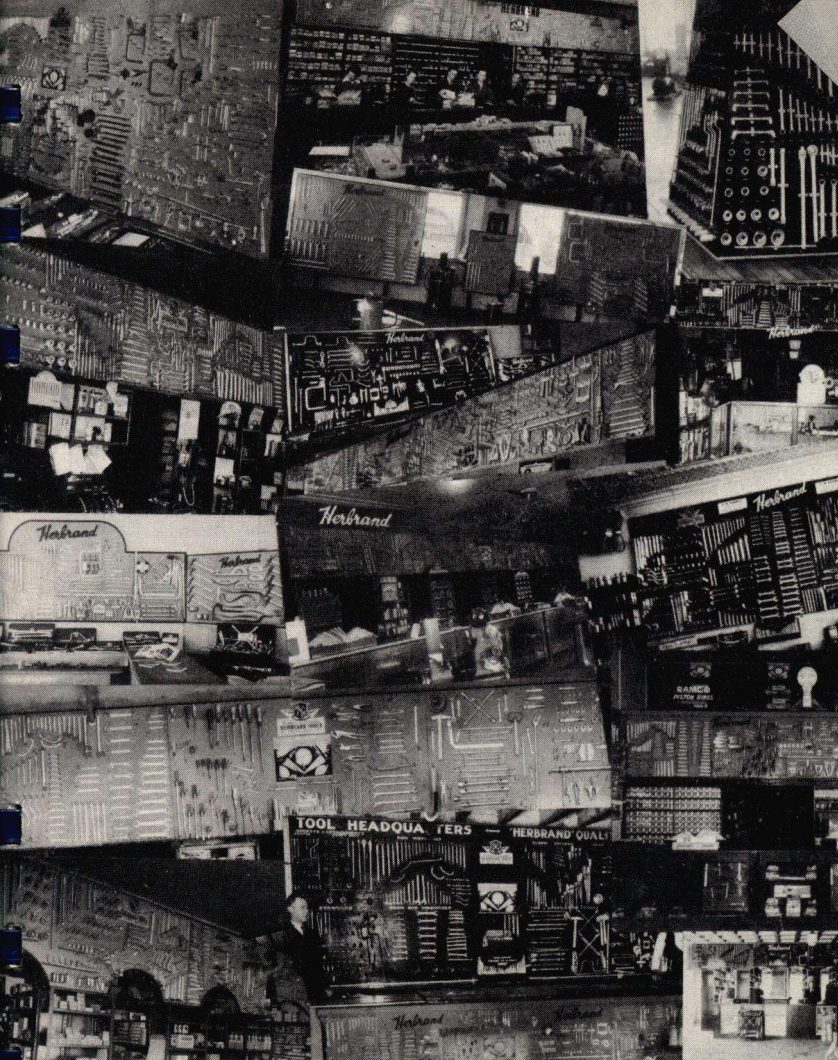
Super Strength Pipe Wrenches, Sizes 6" to 60" • Adjustable Wrenches.

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The Salesmaking Displays shown above are some of the many which are representative of the promotional effort of progressive jobbers who are constantly increasing sales and profits by giving their trade visible evidence of the quality, completeness and supremacy of Herbrand Modern Automotive Tools.



The foremost jobbers throughout the country have become tool centers of their trading areas by demonstrating their service to mechanics and other outlets with these tailor-made Display Boards, specially built to fit the store space available and to carry their own selection of tools.

58 YEARS OF CRAFTSMANSHIP IS REFLECTED IN HERBRAND TOOLS OF CHARACTER AND DISTINCTION ●

Geared to a policy of progress since the horse and buggy days of 1881, Herbrand has constantly forged ahead to a position of leadership in the tool industry. Fifty-eight years of intelligent service and research have provided a background of creative knowledge that is reflected in the high standard of quality found in Herbrand tools today. Predominant in revolutionary design and new development, they set the pace because they excel in performance, utility, balance, strength and raise the efficiency of the mechanic to the highest degree. In tools today, performance is vital.

The time tested mark of distinction "*Herbrand*" or "*Van-Chrome*" on any tool is your unqualified guarantee against faulty material or workmanship and positive assurance that they will give unfailing service on the work for which they are designed.

A group of seven modern buildings on a thirty acre tract of land houses the latest type equipment for the production of Herbrand Tools of Quality and Distinction. The tool finishing building at the left is 740 feet long by 60 feet wide.



The Big Modern
Equipped Plant
Behind Herbrand
Quality Products.

Van-Chrome Hot Forged Sockets, Handles and Lightweight Attachments

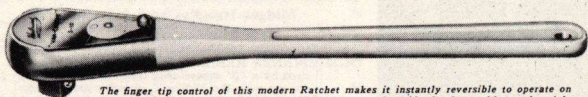
Compare the New Herbrand *Hot Forged* Sockets with the ordinary type and immediately you will see the smooth, clean cut, thin, accurate side walls and points which are free from chatter marks, tears and chips. They are lighter in weight, structurally better and have unbreakable strength.

Herbrand's *Hot Forging* eliminates all unnecessary bulk, and the extra thin, straight side walls banish clearance problems. The drive ends are machined down to a narrow offset shoulder which further reduces weight, bulk and clumsiness. The height of each socket is graduated to a definite engineering formula to balance with the size of the openings. They are heavily knurled for a non-slip grip and equipped with positive lock-on.

All "Van-Chrome" Sockets and Attachments are attractively finished in triple nickel with contrasting silvery satin heads and mirror polished walls.

Herbrand Makes Only One Grade of Socket Wrenches

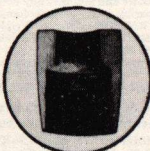
Only the best grade of Sockets and Handles give complete satisfaction. Herbrand does not mislead or confuse the trade with different or inferior grades. The trade name Herbrand "Van-Chrome" stands for perfection.



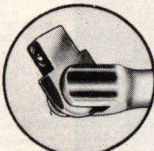
The finger tip control of this modern Ratchet makes it instantly reversible to operate on the 28th of a turn in either direction with no lost motion. Absolutely trouble-proof, quick-acting and designed with trim, slender lines to operate freely in close, cramped quarters.



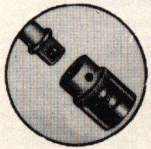
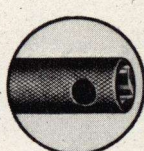
Actual photographic comparison—"Van-Chrome" Hot Forged socket with the ordinary type—no chatter marks, tears or chips.



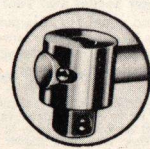
The drive tips of the Flex Handles stay firm at any desired angle.



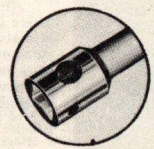
Flex Handles can also be used as extensions or as T and L wrenches.



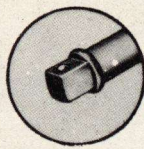
The lock-on feature—distinctive with Herbrand—holds sockets firmly—releases readily without the aid of a special tool.



Note recess for stop ball in this Sliding T—head slides flush to ends—friction ball holds head firmly in any position on bar.



The forged heads of Extensions are cross drilled to make T or L wrenches—also have retaining holes for positive locking.



The drive end of Extensions—forged to a perfect fit to readily engage sockets or handles—offset shoulder for positive socket stop.



M-606 to 614



M-808 to 810



M-20



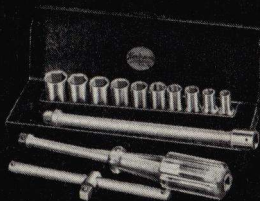
M-21



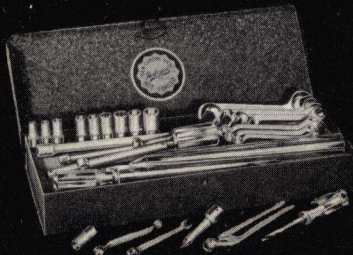
M-22



M-45



Set No. MA-50 1/2



Set No. MA-55 1/2

Van-Chrome Midget Series Sockets Handles and Attachments

1/4" Square Drive—Thin Straight Walls

Hot Forged from Chrome Molybdenum Steel

These Mighty Midgets are *Hot Forged* (not broached), assuring smooth, clean cut openings for fine adjustments and extreme accuracy. They are the most modern design for small nuts in close quarters on magnetos, generators, carburetors, radios, refrigerators, airplanes, wiring connections, etc. Each Socket is chamfered, knurled and drilled for lock-on feature. Chrome nickel plated with polished sidewalls.

6-Point Sockets

Number	Opening	Height	Wt. Doz. Ozs.	List Each
M-606	3/16	1	5	\$.50
M-607	7/32	1	5	.50
M-608	1/4	1	6	.50
M-609	7/32	1	6	.50
M-610	1/2	1	8	.50
M-611	11/32	1	10	.50
M-612	3/8	1	12	.50
M-614	7/16	1		

8-Point Sockets

Number	Opening	Height	Wt. Doz. Ozs.	List Each
M-808	1/4	1	6	\$.50
M-810	5/16	1	8	.50

Midget Handles and Attachments

No.	Description	List Ea
M-20	SPINNER HANDLE. Pyralin insulated grip. Featured by a 1/2" square drive hole in the handle end for use with the Sliding T, or other attachments. Shank 3". Overall length 6". Weight 2 ozs.	\$1.30
M-21	SLIDING T HANDLE. The forged head slides flush to either end and is firmly held at any desired point on bar by a friction ball. Length 4 1/2". Weight 1 oz. . . . .	.90
M-22	EXTENSION. 4" long. Weight 1 oz. . . . .	.60
M-45	SCREW DRIVER ATTACHMENT FOR PHILLIPS HEAD SCREWS. 1/4" square drive. Length 2". Fits No. 2 Phillips screw points. Weight 1 oz.	1.15

Midget Socket Set No. MA-50 1/2

Takes care of any of the numerous small nuts on automotive, electrical and other equipment.

Contents, total of 13 pieces:—Ten Sockets listed above. Handles, M-20, M-21 and M-22.

SET No. MA-50, in fibre box. Weight 12 ozs. \$7.80

SET No. MA-50 1/2, in fitted metal box. Weight 15 ozs. 8.30

Midget Socket and Tool Set No. MA-55 1/2

There is no equal for this compact, complete Set of Miniature Tools. Its use is very wide, not only for automotive mechanics and electricians, but for service work on radios, typewriters, office machines, movie equipment, sewing machines, meter repairs, etc.

Contents, total of 27 Electrical and Ignition Tools:—10 Hot Forged 1/4" Drive Sockets listed in the above table. 4 Midget Handles and Attachments Nos. M-20, M-21, M-22 and M-45. 4 Midget Box Wrenches shown on page 86. 5 Miniature Open End Wrenches Nos. 81, 83, 85, 87 and 89 described on page 87. No. 167 Ignition Plier. 3 Shockproof Handle Screw Drivers, Nos. 310-2", 311A-6", 309-3/4" blade.

SET No. MA-55, in fibre box. Weight 1 lb. 6 ozs. \$20.40

SET No. MA-55 1/2, in fitted metal box. Weight 3 lbs. 21.40

See pages 86 to 88 for other Electrical and Ignition Tools

Van-Chrome Carburetor Sockets and Service Tools

1/4" and 3/8" Square Drive—Thin Walls

Chrome Molybdenum Steel

Herbrand's new Carburetor Tools now open a new and profitable service field for mechanics and service stations. Long and concentrated research has dictated just the right units for the commonly used Carter and Stromberg carburetors, although these special tools are universal in application. Necessary items for carburetor disassembly, assembly and general tune-up work are included. Sockets are equipped with lock-on feature. Openings are chamfered. Sockets are knurled, chrome plated and polished.

No.	Description	List Ea
C-21	5/16" opening, 6-point Socket for brass bowl and BB downdraft. 2" overall. 1/4" drive. Weight 1 oz.	\$.65
C-22	3/8" opening, 6-point Socket for W-1 and dual downdraft. 2" overall. 1/4" drive. Weight 1 oz.	.65
C-23	1 3/32" opening, 6-point Socket for downdraft carburetors, used on needle valve seats. 2" overall. 1/4" drive. Weight 1 oz.	.75
C-24	1 3/32" opening, 6-point Socket for check valve in Stromberg carburetors. 1/4" drive. 2" high. Wt. 1 oz.	1.00
C-25	7/16" opening, 12-point Socket for BB downdraft. 2" overall. 3/8" drive. Weight 1 oz.	.75
C-26	1 1/2" opening, 12-point Socket for BB downdraft and BB updraft. 2" overall. 3/8" drive. Weight 1 1/2 ozs.	.75
C-27	3/16" opening, 12-point Socket for BB downdraft carburetor. 2" overall. 3/8" drive. Weight 2 ozs.	.80
C-28	Stromberg Carburetor Jet Socket. 2" overall. 1/4" drive. Weight 1 oz.	.80
C-29	Stromberg Carburetor Jet Socket. 2" overall. 1/4" drive. Weight 1 oz.	.80
C-30	Screw Driver Socket for float needle valve seats and high speed metering jets in Stromberg and Carter carburetors. 1/4" drive. 1 1/2" high. Weight 1 oz.	.65
C-31	Screw Driver Socket for multiple jet on Carter carburetor. 1/4" drive. 1 1/2" high. Weight 1 oz.	.75
C-32	Screw Driver Socket for step-up piston downdraft carburetors. 1/4" drive. 1 1/2" high. Weight 1 oz.	.75
C-33	Carter Pump Discharge Nozzle Screw Driver. 3/16" blade. 1/4" drive. 3 1/4" long. Weight 1/2 oz.	1.15
C-34	Screw Driver Socket. 1/4" blade. 1/4" drive. 3 1/4" long. Weight 1 oz.	1.15
C-35	Screw Driver Socket. 3/16" blade. 1/4" drive. 3 1/4" long. Weight 1 oz.	1.15
C-36	Retainer Ring Insert for BB downdraft carburetor. 3/8" drive. Height 1 1/4". Weight 2 ozs.	.90
C-37	Retainer Ring Insert for BB downdraft carburetor. 3/8" drive. 1 1/2" high. Weight 1 oz.	.90
C-38	Main Vent Tube Tool. 2 3/4" long. Weight 1 oz.	1.65
C-39	Spinner Handle. 5" long. Weight 6 ozs.	1.25
C-40	Offset Driver for pulling plugs from bottom of Stromberg carburetors. Weight 2 ozs.	.80
C-41	3/8" to 1/4" Male Adaptor. Weight 1 oz.	.65
C-42	3/8" Sliding T. 6" long. Weight 5 ozs.	1.25

Carburetor Service Set No. C-20 1/2

Contents, total of 30 pieces:—The 22 Specialized Carburetor Service Tools listed above. 4 Midget Box Wrenches shown on page 86; 2 Miniature End Wrenches Nos. 84 and 85 listed on page 87; 2 Open End Wrenches Nos. 1723 and 1729.

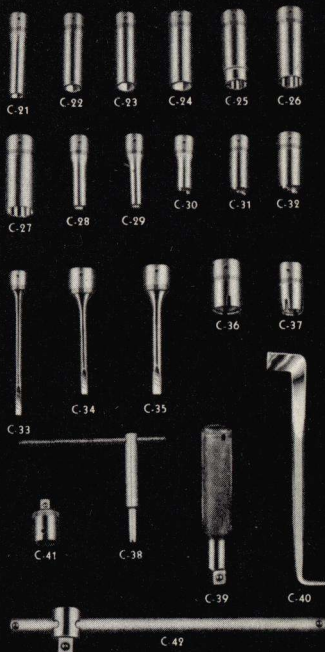
SET No. C-20, in fibre box. Weight 3 lbs.

LIST PRICE, complete.....\$27.00

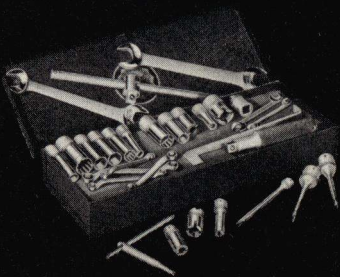
SET No. C-20 1/2, in fitted metal box. Weight 5 lbs. 12 ozs.

LIST PRICE, complete.....28.00

See pages 86 to 88 for other Carburetor Service Tools



Carburetor Service Tools Nos. C-21 to C-42



Set No. C-20 1/2

Junior Series Van-Chrome Sockets

$\frac{3}{8}$ " Square Drive—Thin Straight Walls
Hot Forged from Chrome Molybdenum Steel

Small—Slender—Straight—Thinwalled—yet mighty in performance. Extra strength is *Hot Forged* into them. Advanced features of design provide unequalled advantages of speed and utility. Get into tight places where others fail. Heat treated, knurled, have lock-on feature. Chrome plated, polished side walls.



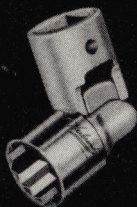
J-612 to J-624

J-212 to J-216

J-112 to J-124



J-414 to J-424



J-312 to J-324



J-714 to J-718



J-39



J-37



J-41



J-45 to J-47

12-Point Sockets

Number	Opening	Height	Wt. Per Dos. Lbs. Ozs.	List Price Each
J-112	$\frac{3}{8}$	$1\frac{1}{2}$	.. 9	\$.50
J-114	$\frac{7}{16}$	$1\frac{1}{2}$	.. 12	.50
J-116	$\frac{1}{2}$	$1\frac{1}{2}$	.. 12	.50
J-118	$\frac{9}{16}$	$1\frac{1}{2}$	.. 12	.50
J-120	$\frac{5}{8}$	$1\frac{1}{2}$	.. 15	.50
J-122	$1\frac{1}{16}$	$1\frac{1}{2}$	.. 15	.60
J-124	$\frac{3}{4}$	$1\frac{1}{2}$	1 2	.60

8-Point Sockets

J-212	$\frac{3}{8}$	$1\frac{1}{2}$	.. 12	\$.50
J-214	$\frac{7}{16}$	$1\frac{1}{2}$	.. 15	.50
J-216	$\frac{1}{2}$	$1\frac{1}{2}$	1 2	.50

6-Point Sockets

J-612	$\frac{3}{8}$	$1\frac{1}{2}$	.. 9	\$.50
J-614	$\frac{7}{16}$	$1\frac{1}{2}$	.. 12	.50
J-615	$1\frac{1}{32}$	$1\frac{1}{2}$	.. 12	.50
J-616	$\frac{1}{2}$	$1\frac{1}{2}$	.. 12	.50
J-618	$\frac{9}{16}$	$1\frac{1}{2}$	.. 12	.50
J-620	$\frac{5}{8}$	$1\frac{1}{2}$	.. 15	.50
J-622	$1\frac{1}{16}$	$1\frac{1}{2}$	.. 15	.60
J-624	$\frac{3}{4}$	$1\frac{1}{2}$	1 2	.60

Flexible 12-Point Sockets—Spring Tension Construction

J-312	$\frac{3}{8}$	$1\frac{1}{2}$	1 5	\$2.40
J-314	$\frac{7}{16}$	$1\frac{1}{2}$	1 5	2.40
J-316	$\frac{1}{2}$	$1\frac{1}{2}$	1 8	2.40
J-318	$\frac{9}{16}$	$1\frac{1}{2}$	1 8	2.40
J-320	$\frac{5}{8}$	$1\frac{1}{2}$	1 8	2.40
J-322	$1\frac{1}{16}$	$1\frac{1}{2}$	1 11	2.40
J-324	$\frac{3}{4}$	2	1 11	2.40

Extra Deep 12-Point Sockets

J-414	$\frac{7}{16}$	2	1 8	\$.80
J-416	$\frac{1}{2}$	2	1 8	.80
J-418	$\frac{9}{16}$	2	1 8	.85
J-420	$\frac{5}{8}$	2	1 8	.85
J-422	$1\frac{1}{16}$	2	1 8	.95
J-424	$\frac{3}{4}$	2	1 8	1.00

*Fits A.C. 10 mm Plugs †Fits Champion 10 mm Plugs

Extra Deep 8-Point Socket—Chevrolet Running Board

J-514	$\frac{7}{16}$	2	1 8	\$.80
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Weatherhead Sockets for Elbow-Shaped Fittings

J-714	$\frac{7}{16}$ Special	$1\frac{1}{4}$	1 8	\$.75
J-716	$\frac{1}{2}$ Special	$1\frac{1}{4}$	1 14	.80
J-718	$\frac{9}{16}$ Special	$1\frac{1}{4}$	2 4	.90

Screw Driver Socket

J-37	$\frac{9}{16}$ " Bit	$3\frac{1}{2}$	1 8	\$.75
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Drag Link Socket

J-39	$1\frac{1}{16}$ " Bit	$1\frac{1}{2}$.. 12	\$.75
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Chevrolet Oil Pan Flexible Screw Driver

J-41	$\frac{7}{16}$ " Bit	2	1 8	\$1.55
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Junior Screw Driver Bits for Phillips Head Screws

J-45	No. 2 Point	$2\frac{3}{8}$.. 12	\$1.35
J-46	No. 3 Point	$2\frac{3}{8}$	.. 2	1.35
J-47	No. 4 Point	$2\frac{3}{8}$	1 8	1.35

Junior Series Handles and Attachments

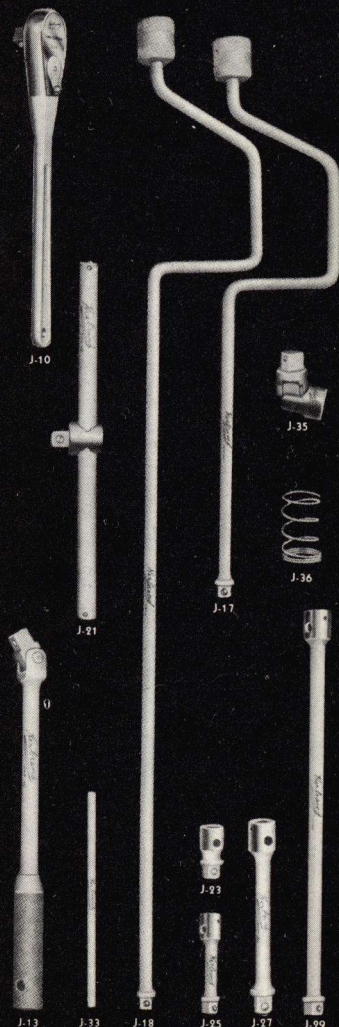
3/8" Square Drive—Extra Strong and Rigid

Drop Forged from Chrome Molybdenum Steel

"Van-Chrome" Handles are correctly designed and proportioned to deliver the utmost speed and ease of handling. All unnecessary weight and clumsiness are eliminated. Comfortable grips contribute to their efficiency and careful heat treatment imparts extra strength and rigidity. Heavily chrome plated with brightly polished ends and faces. Equipped with friction balls to firmly engage the sockets and eliminate the danger of having them drop off in tight places. All Van-Chrome Handles are fully guaranteed.

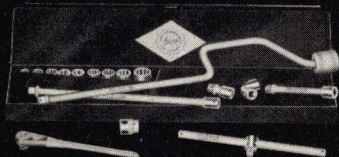
No.	Description	List Each
J-10	JUNIOR REVERSIBLE RATCHET OF EXCLUSIVE HERBRAND DESIGN. Positive thumb control instantly reversible to operate the 20th of a turn either right or left. No delicate or complicated parts to cause grief; designed to operate in close, cramped quarters. Solid drop forged handle. Amazingly strong. Length 6 5/8". Weight 8 ozs.	\$4.25
J-13	FLEXIBLE OFFSET HANDLE. A flex handle, a swivel handle, an offset handle, a T handle and a nut spinner all in one. Perfectly balanced with a compact swivel joint on a comfortable grip, knurled handle. A friction ball holds the drive tip firmly at any angle. The handle is cross drilled to insert a T bar when needed and is featured with a square drive hole in the end for use with other attachments. Length 8 3/8". Weight 7 1/2 ozs.	2.60
J-17	SPEEDER HANDLE. Forged solid. Light and slim, designed for extra speed and more clearance. Has a special knurled revolving handle for perfect grip. Length 17". Weight 1 lb. 1 oz.	1.85
J-18	LONG SPEEDER HANDLE. 30" long for extra reach and clearance. Forged solid. Revolving grip handle. Weight 1 lb. 6 ozs.	2.50
J-21	SLIDING T HANDLE. The forged head slides flush to the ends making an offset wrench. A friction ball holds the head firmly at any point on the bar. Length 8". Weight 4 ozs.	1.35
	EXTENSIONS. Forged solid and cross drilled for use with T Bar J-33. The drive end is forged with an offset shoulder which acts as a positive stop. Equipped with lock-on feature.	
J-23	EXTENSION, 1 1/2" long. Weight 1 oz. ....	.60
J-25	EXTENSION, 3" long. Weight 2 ozs. ....	.70
J-27	EXTENSION, 5" long. Weight 3 ozs. ....	.85
J-29	EXTENSION, 11" long. Weight 6 ozs.	1.15
J-33	T HANDLE BAR. Used to form a T with all Herbrand Handles which are cross drilled for this purpose. Length 6 1/2". Weight 1 oz. ....	.25
J-35	UNIVERSAL JOINT, improved, short coupled, positive locking, facilitates adjustments in inaccessible places. Reaches where other universals fail. Weight 2 ozs.	2.20
J-36	SPRING STABILIZER, slides over universal joint and flexible 12-point sockets for conversion into a flexible knuckle. ....	.15

See page 21 for the new Junior Speeder Ratchet

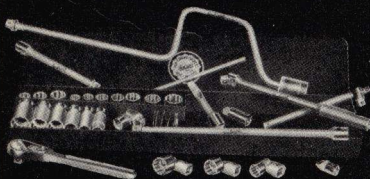




Set No. JA-60 1/2



Set No. JA-61 1/2



Set No. JA-62 1/2

The Junior Series Sockets included in these Sets are all Hot Forged with straight, thin side walls. Openings are extra deep, smooth, clean cut and accurate. The light weight Handles and Attachments are designed for perfect balance and efficiency.

Junior Series Van-Chrome Socket Sets

3/8" Square Drive

Hot Forged from Chrome Molybdenum Steel

Complete Sets of Quality Sockets and Handles may be inexpensively built to suit individual needs. The selected Sets of properly graduated Junior Series Sockets listed on this page are the most popular and efficient within their size range. Available in fitted, substantial metal boxes or cardboard containers.

Junior Flex Set No. JA-60 1/2

Popular with mechanics, electricians and car owners.

Contents, total of 9 pieces:—7 "Van-Chrome" 12-point Sockets Nos. J-112, J-114, J-116, J-118, J-120, J-122, J-124, providing a range of opening sizes from 3/8" to 3/4" inclusive. Junior Flexible Handle J-13. T Handle Bar J-33.

SET No. JA-60, in fibre box. Weight 1 lb.

LIST PRICE, complete.....\$6.55

SET No. JA-60 1/2, in metal box. Weight 2 lbs.

LIST PRICE, complete..... 7.25

Junior Socket Set No. JA-61 1/2

A well balanced assortment of Junior 3/8" drive Sockets and Handles which cover a wide range of service in automotive, electrical, aviation and refrigeration work.

Contents, total of 17 pieces:—7 "Van-Chrome" 12-point Sockets Nos. J-112, J-114, J-116, J-118, J-120, J-122, J-124, with opening sizes from 3/8" to 3/4" inclusive. 8-point Sockets Nos. J-212, J-214, J-216 with openings of 3/8", 7/16", 1/2". Junior Reversible Ratchet J-10. 17" Speeder No. J-17. Universal Joint J-35. Sliding T Handle J-21. Extensions: J-23, 1 1/2" long; J-27, 5" long and J-29, 11" long.

SET No. JA-61, in fibre box. Weight 3 lbs. 4 ozs.

LIST PRICE, complete.....\$17.45

SET No. JA-61 1/2, in metal box. Weight 5 lbs. 13 ozs.

LIST PRICE, complete..... 18.45

Junior Socket Set No. JA-62 1/2

A comprehensive assortment of Junior 3/8" drive Sockets, Handles and Attachments. Its broad range of service covers the wide variety of small nuts daily encountered on motors, airplanes, refrigerators, radios, electrical devices and automobiles.

Contents, total of 31 pieces:—7 12-point Sockets, Nos. J-112, J-114, J-116, J-118, J-120, J-122 and J-124, with openings from 3/8" to 3/4". 8-point Sockets J-212, J-214 and J-216 with openings of 3/8", 7/16" and 1/2". Flexible Sockets J-316, J-318 and J-320. 6 Extra Deep Sockets J-414 to J-424 inclusive providing openings from 7/16" to 3/4". Reversible Ratchet J-10. Flex Handle J-13. Speed Handle J-17. Sliding T J-21. 1 1/2" Extension J-23. 5" Extension J-27. 11" Extension J-29. T Handle Bar J-33. Universal Joint J-35. Spring Stabilizer J-36. Screw Driver J-37. Drag Link J-39. These tools are described on pages 10 and 11.

SET No. JA-62, in fibre box. Weight 6 lbs.

LIST PRICE, complete.....\$34.40

SET No. JA-62 1/2, in metal box. Weight 8 lbs.

LIST PRICE, complete..... 35.60

Standard Series Van-Chrome Sockets

1/2" Square Drive—Extra Thin Straight Walls
Hot Forged from Chrome Molybdenum Steel

All excess weight and clumsiness have been eliminated. Every Socket is individually *Hot Forged* which insures precision, accuracy, greater strength, durability, and compactness adapting them to faster performance. The height of each socket is graduated to a definite engineering formula to balance with the opening size and they are knurled for a non-slip grip. Equipped with lock-on feature which firmly locks the sockets to the handles but releases easily. Extra powered by scientific heat treatment. Chrome plated with mirror polished side walls.

12-Point Sockets

Number	Opening	Height	Weight Per Doz. Lbs. Ozs.	List Price Each
S-112	3/8	1 1/8	.. 12	\$.60
S-114	7/16	1 1/8	.. 12	.60
S-116	1/2	1 1/8	.. 15	.60
S-117	5/8	1 1/8	1 2	.75
S-118	3/4	1 1/8	1 2	.75
S-118V	3/4	1 1/8	1 2	.85
S-119	7/8	1 1/8	1 2	.75
S-120	1	1 1/8	1 2	.80
S-121	1 1/8	1 1/8	1 5	.80
S-122	1 1/4	1 1/8	1 8	.80
S-123	1 1/2	1 1/8	1 5	.85
S-124	1 3/4	1 1/8	1 14	.85
S-125	2	1 1/8	1 14	.85
S-126	2 1/8	1 1/8	2 ..	.85
S-128	2 1/2	1 1/8	2 4	1.00
S-129	2 3/4	1 1/8	2 6	1.00
S-130	3	1 1/8	2 12	1.00
S-131	3 1/8	1 1/8	3 ..	1.00
S-132	1	1 1/8	3 3	1.15
S-134	1 1/8	1 1/8	3 3	1.25
S-136	1 1/4	1 1/8	4 8	1.35
S-138	1 1/2	1 1/8	4 10	1.45
S-140	1 3/4	1 1/8	5 4	1.50

S-117 Special 6-point Chevrolet Connecting Rod Socket.
S-118V Special for Ford Connecting Rod Nuts including V8-85, V8-95 and Mercury.
S-121 For Ford A and B Connecting Rod Bearing Cap Nuts and V8-60 Main Bearings.
S-122 For Chevrolet Center and Rear Main Bearing Cap Screws and Ford V8-85 Head Bolts.
S-123 6-point for Chevrolet Front Main Bearing Screws, 1933-34.
S-124 Fits Rear Main Bearing Nuts on all Fords including late models.
S-129 Shackle Bolt Socket for Plymouth, Chrysler, Dodge and De Soto.

Flexible 12-Point Sockets

Universal joints and 12-point Sockets combined for turning nuts from any angle. Very compact, close coupled. Real time-savers in close quarters. Tension spring holds at any angle desired.

S-316	1/2	2 3/8	2 13	\$2.45
S-318	9/16	2 3/8	2 13	2.45
S-320	5/8	2 3/8	2 13	2.45
S-322	11/16	2 3/8	3 ..	2.45
S-324	3/4	2 3/8	3 ..	2.45

6-Point Sockets

S-616	1/2	\$.60
S-618	9/16	.75
S-620	5/8	.80
S-622	11/16	.80
S-624	3/4	.85

8-Point Sockets

S-212	3/8	\$.60
S-214	7/16	.60
S-216	1/2	.75
S-218	9/16	.75
S-220	5/8	.80
S-224	3/4	.80
S-228	7/8	.95

Refer to page 22 for Extra Deep Standard Sockets



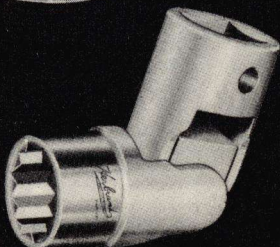
6-Point
S-616 to S-624



8-Point
S-212 to S-228



12-Point
S-112 to S-140



Flexible 12-Point S-316 to S-324

Standard Series Handles and Attachments

1/2" Square Drive—Extra Strong and Rigid
Drop Forged from Chrome Molybdenum Steel

These versatile Herbrand Socket Handles and Attachments are better designed to make any combinations desired. They are lighter in weight than the ordinary types, increase efficiency, eliminate bulk and clumsiness, get into those tough spots and are easier to handle. One-piece forging and scientific heat treatment impart rigidity and power. Chrome plated.

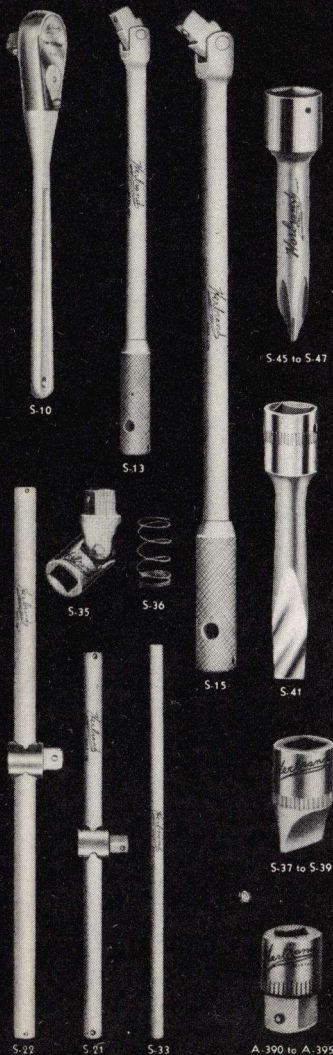
No.	Description	List Each
S-10	IMPROVED STANDARD REVERSIBLE RATCHET OF EXCLUSIVE HERBRAND DESIGN. Instantly reversible with thumb control to operate on the 28th of a turn either right or left without lost motion. Absolutely trouble proof and designed with narrow, slender lines to function rapidly and freely in close, cramped working quarters where other ratchets can't go. The handle is a solid drop forging. Chrome Molybdenum Steel. Length 9 3/4". Wt. 1 lb.	\$5.25
S-13	FLEXIBLE OFFSET HANDLE. End of handle is drilled to insert T bar S-33 and has a square drive hole to engage other attachments. A friction ball holds the compact swivel joint firmly at any angle. Length 12". Weight 1 lb. 3 ozs.	3.15
S-15	LONG FLEXIBLE OFFSET HANDLE. A flex handle, a swivel handle, a T handle, an offset wrench and a nut spinner—all in one. A friction ball holds the drive tip firmly at any angle. The large knurled handle is forged with a 1/2" square drive opening for connection with other units and is also drilled for insertion of T bar. 18" long. Weight 1 lb. 9 ozs.	3.70
S-21	SLIDING T HANDLE. The forged head slides flush to either end and is firmly held at any point on the bar by a friction ball. Length 11". Wt. 15 ozs.	1.70
S-22	EXTRA LONG SLIDING T HANDLE. An extra long reach with tremendous pulling power. Makes work easy in awkward and difficult locations. The solid drop forged head slides flush to either end, or remains firmly at any position on the bar. Length 16". Weight 1 lb. 6 ozs.	2.05
S-33	T HANDLE BAR. Used to form T Handle with all Herbrand attachments which are cross drilled for this service. 11" long. Weight 5 ozs.	.30
S-35	UNIVERSAL JOINT. Extremely compact. New design. Short coupled. Breaks over to a full 90° angle for positive locking. Reaches into tight places where other universals fail. Weight 4 ozs.	2.30
S-36	SPRING STABILIZER. Slides over universal joint for conversion into a flexible knuckle.	.20
S-37	DRAG LINK SOCKET, 3/4" Blade.	1.00
S-39	DRAG LINK SOCKET, 1" Blade.	1.00
S-41	SCREW DRIVER SOCKET. For use with ratchet, speeder or any other 1/2" unit. 3 1/2" long.	.80

Standard Screw Driver Bits for Phillips Head Screws

S-45	BIT. For No. 2 Point. 3" long. Weight 1 oz.	\$1.50
S-46	BIT. For No. 3 Point. 3" long. Weight 1 oz.	1.50
S-47	BIT. For No. 4 Point. 3" long. Weight 1 oz.	1.50

Socket Adaptors

A-390	3/8" male, 1/2" female	\$.90
A-391	1/2" male, 3/8" female	.90
A-392	1/2" male, 3/8" female	.90
A-393	1/2" male, 3/8" female	1.25
A-394	3/4" male, 1/2" female	1.25
A-395	3/4" male, 3/8" female	1.35



S-45 to S-47

S-41

S-37 to S-39

A-390 to A-395

Standard Series Handles and Attachments

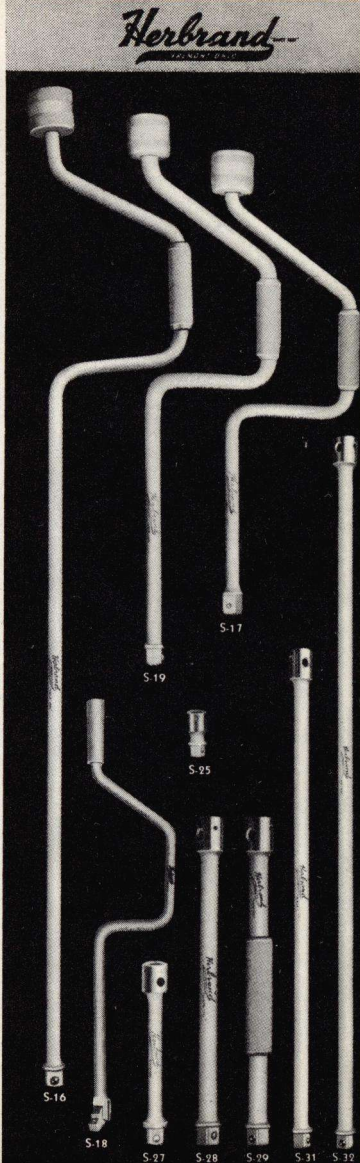
1/2" Square Drive—Extra Strong and Rigid

Drop Forged from Chrome Molybdenum Steel

All "Van-Chrome" Handles and Attachments are equipped with Herbrand's well-known and distinctive lock-on feature. This is your assurance that the sockets "stay put"—no chance of them dropping off to cause grief and loss of time. The forged offset shoulder on the connection ends is a positive socket stop and provides automatic engagement of the locking ball. Finished in lustrous Chromium plate, the ends and faces are polished brightly. This finish is rust resisting and will retain its lustre. All "Van-Chrome" Sockets and Handles are fully guaranteed.

No.	Description	List Each
S-16	EXTRA LONG SPEEDER HANDLE. Here's that long, lean reach on the most modern Speeder, especially built to save time, labor and grief when getting into tough spots on present day motors. The extra length makes it unnecessary to remove the hood or other interfering parts, but reaches down in and engages nuts in dark corners, at difficult angles, where average tools are useless. Especially efficient when hooked up with Herbrand 12-point Flexible Series Sockets. Has knurled revolving grip handles. Designed with a short sweep for maximum clearance. Length 30". Weight 2 lbs. 8 ozs.	\$3.00
S-17	SHORT SPEEDER HANDLE. Forged solid and specially designed for maximum clearance and leverage. Knurled revolving grips. 15" long. Weight 1 lb. 7 ozs.	2.15
S-18	FLEX SPEEDER HANDLE. Combines the advantages of a flex handle and the fast working qualities of a speeder. A spring controlled friction ball holds the compact swivel joint at any desired angle, turning to a full 90° to tighten or break loose the most stubborn nut, then swings to the most convenient angle for spinning on or off. Equipped with knurled revolving grip handle. A time saver on cylinder heads, main bearings, connecting rods and the like. Length 16". Weight 1 lb. 9 ozs.	4.00
S-19	LONG SPEEDER HANDLE. Forged solid and designed to deliver the utmost in speed and efficiency. Knurled revolving grips. 18" long. Weight 1 lb. 10 ozs.	2.40
	EXTENSIONS. All Herbrand Standard Extensions are forged solid with 1/2" square drive opening in the heads for use with other attachments. Drilled to engage T bar No. S-33, they also have retaining holes for positive lock-on to all units. The drive ends have a forged shoulder which acts as a positive socket stop and are equipped with lock-on ball to keep the sockets from working loose or falling off.	
S-25	EXTENSION, 2" long. Weight 3 ozs. ....	.85
S-27	EXTENSION, 5" long. Weight 6 ozs.	1.00
S-28	EXTENSION, 10" long. Weight 12 ozs.	1.15
S-29	EXTENSION, 10" long with center swivel grip. Weight 15 ozs.	1.70
S-31	EXTENSION, 18" long. Weight 1 lb. 5 ozs.	1.85
S-32	EXTENSION, 26" long. Weight 1 lb. 12 ozs.	2.30

See page 21 for the new 1/2" Drive Speeder Ratchet



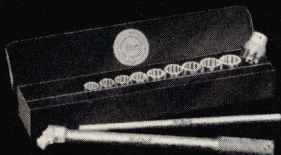
Standard Series Van-Chrome Socket Sets

1/2" Square Drive

Here are set combinations containing the latest *Hot Forged* Sockets and speedier, better designed Handles. The heavy gauge metal boxes will last a lifetime and there is ample space for additional tools.



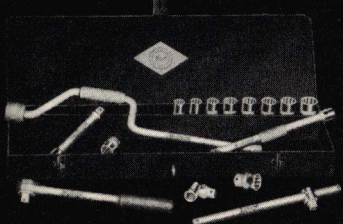
Set No. SA-70



Set No. SA-71 1/2



Set No. SA-73 1/2



Set No. SA-72 1/2

Standard Socket Assortment No. SA-70—16 Pieces

A popular assortment of 16 *Hot Forged* Sockets with 12-point openings and extra thin straight side walls.

Contents: 16 "Van-Chrome" Sockets, Nos. S-112, 3/8"; S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-119, 1 1/8"; S-120, 5/8"; S-121, 1 1/4"; S-122, 1 1/2"; S-124, 3/4"; S-125, 2 3/8"; S-126, 1 3/4"; S-128, 7/8"; S-130, 1 1/2"; S-131, 1 3/4"; S-132, 1"; S-134, 1 1/4".

SET No. SA-70, in fibre box. Weight 2 lbs. 5 ozs.

LIST PRICE, complete.....\$13.65

Standard Flex Set No. SA-71 1/2—12 Pieces

This Set carries No. S-13 Flexible Handle and T Bar S-33, and ten selected "Van-Chrome" Sockets.

Contents: 10 "Van-Chrome" 12-point Sockets Nos. S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-120, 5/8"; S-121, 1 1/4"; S-122, 1 1/2"; S-124, 3/4"; S-125, 2 3/8"; S-126, 1 3/4"; S-128, 7/8"; S-130, 1 1/2". Flexible Offset Handle No. S-13 and T Handle Bar S-33.

SET No. SA-71 1/2 in metal box. Weight 4 lbs. 6 ozs.

LIST PRICE, complete.....\$12.20

Standard Flex Set No. SA-73 1/2—18 Pieces

This popular set carries the extra long 18" Flexible Handle S-15 and the T Bar S-33. Also 16 *Hot Forged* 12-point Sockets with openings from 3/8" to 1 1/4".

Contents, 16 "Van-Chrome" Sockets Nos. S-112, 3/8"; S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-119, 1 1/8"; S-120, 5/8"; S-121, 1 1/4"; S-122, 1 1/2"; S-124, 3/4"; S-125, 2 3/8"; S-126, 1 3/4"; S-128, 7/8"; S-130, 1 1/2"; S-131, 1 3/4"; S-132, 1"; S-134, 1 1/4". 18" Flexible Offset Handle S-15 and T Bar S-33.

SET No. SA-73 1/2, in metal box. Weight 6 lbs.

LIST PRICE, complete.....\$18.90

Standard Socket Set No. SA-72 1/2—16 Pieces

An assortment that comprises 10 of the most popular sizes of *Hot Forged* Sockets and 6 lightweight Handle Units. It meets the needs of most mechanics and there is ample room in the substantial metal box for additional Sockets and Handles.

Contents: 10 "Van Chrome" 12-point Sockets Nos. S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-120, 5/8"; S-121, 1 1/4"; S-122, 1 1/2"; S-124, 3/4"; S-125, 2 3/8"; S-126, 1 3/4"; S-128, 7/8". Reversible Ratchet No. S-10; Speed Handle No. S-17; Sliding T Handle No. S-21; Extension 5" long No. S-27; Extension 10" long No. S-28 and Universal Joint No. S-35.

SET No. SA-72, in fibre box. Weight 6 lbs. 6 ozs.

LIST PRICE, complete.....\$21.45

SET No. SA-72 1/2, in metal box. Weight 11 lbs. 8 ozs.

LIST PRICE, complete.....23.95

Standard Series Sets (Cont.)

Standard Socket Set No. SA-74½—36 Pieces

A well balanced assortment of "Van-Chrome" Sockets and Handles, carefully selected as those tools regularly required for all-around service.

Contents: 16 twelve point Sockets, Nos. S-112, ¾"; S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-119, 19/32"; S-120, 5/8"; S-121, 11/16"; S-122, 1 1/16"; S-124, 3/4"; S-125, 23/32"; S-126, 1 1/8"; S-128, 7/8"; S-130, 1 1/4"; S-131, 1 1/2"; S-132, 1"; S-134, 1 1/8"; 7 eight point Sockets, Nos. S-212, ¾"; S-214, 7/16"; S-216, 1/2"; S-218, 9/16"; S-220, 5/8"; S-224, 3/4"; S-228, 7/8". Includes special Handles and Attachments: Reversible Ratchet No. S-10; No. S-13 Flex Handle; No. S-17 Speeder; No. S-18 Flex Speed Handle; No. S-21 Sliding T. Extensions, No. S-25 2" long; No. S-27 5" long; No. S-28 10" long. T Spinning Bar No. S-33; Universal Joint No. S-35; Spring Stabilizer No. S-36. Drag Link Socket No. S-37 and S-41 Screw Driver.

SET No. SA-74½, in metal box. Weight 18 lbs.

LIST PRICE, complete.....\$45.25

Standard Socket Set No. SA-75½—37 Pieces

A handy New Set that was developed to meet the demand for a modified assortment of the Socket Sizes and Handle Attachments in most frequent use. All essential tools have been retained making a compact yet Complete Set for everyday use.

Contents: 10 Midget Sockets, openings 7/16" to 7/8"; 4 Midget Handles and Attachments as listed on page 8. 16 Standard Series 12-point Sockets with openings of 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 23/32", 7/8", 1 1/16", 1 1/8", 1 1/4", 1 1/2", 1 3/4", 1 7/8". 7 Standard Series Handles and Attachments Nos. S-15 Flex Handle; S-33 Cross Bar; S-19 Long Speeder; S-10 Reversible Ratchet; S-27 Extension 5"; S-28 Extension 10"; S-21 Sliding T.

SET No. SA-75½, in fitted metal box. Weight 16 lbs.

LIST PRICE, complete.....\$41.20

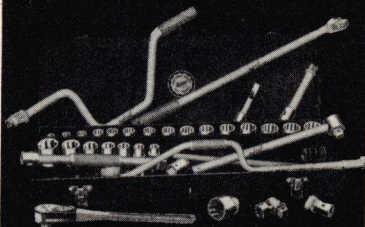
Standard Socket Set No. SA-76½—70 Pieces

The most comprehensive Set of Sockets, Handles and Attachments that will meet any known need of the professional mechanic. These matched units are fitted to a roomy steel box, with a handy removable tote tray, that saves much time and labor.

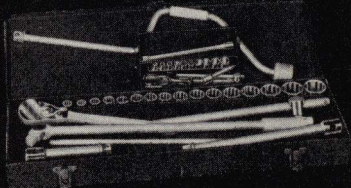
Contents: Ten Midget Sockets and four Midget Handles as listed on page 8. Eighteen "Van-Chrome" 12-point Sockets No. S-112, ¾"; S-114, 7/16"; S-116, 1/2"; S-118, 9/16"; S-119, 19/32"; S-120, 5/8"; S-121, 11/16"; S-122, 1 1/16"; S-124, 3/4"; S-126, 1 1/8"; S-128, 7/8"; S-129, 23/32"; S-130, 1 1/4"; S-131, 1 1/2"; S-132, 1"; S-134, 1 1/8"; S-136, 1 1/4"; S-140, 1 1/2". Seven 8-point Sockets Nos. S-212, ¾"; S-214, 7/16"; S-216, 1/2"; S-218, 9/16"; S-220, 5/8"; S-224, 3/4"; S-228, 7/8". Five 6-point Sockets Nos. S-616, 1/4"; S-618, 9/16"; S-620, 5/8"; S-622, 1 1/16"; S-624, 3/4". Three Flexible 12-point Sockets Nos. S-316, 1/2"; S-318, 9/16"; S-320, 5/8". Seven 12-point Extra Deep Sockets Nos. DS-18, 9/16"; DS-22, 1 1/16"; DS-26, 1 1/4"; DS-28, 7/8"; DS-30, 1 1/4"; DS-32, 1"; DS-36, 1 3/8". Handles and Attachments: No. S-10 Reversible Ratchet; No. S-13 Flexible Offset Handle 12" Long; No. S-15 Long Flex Handle 18"; No. S-21 Sliding T Handle; No. S-33 T Handle Bar; No. S-35 Universal Joint; No. S-36 Stabilizer; No. S-37 Drag Link Socket; No. S-41 Screw Driver Socket; No. S-19 Long Speeder Handle; No. S-25 Extension 2"; No. S-27 Extension 5"; No. S-28 Extension 10"; No. S-31 Extension 18" long. Two Adaptors Nos. A-390 and A-394.

SET No. SA-76½, in special fitted metal box. Weight 28 lbs.

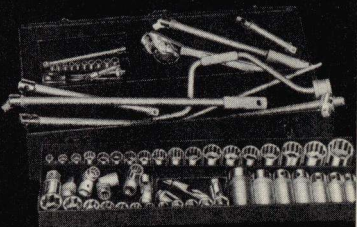
LIST PRICE, complete.....\$80.00



Set No. SA-74½



Set No. SA-75½



Set No. SA-76½

Heavy Duty Series Van-Chrome Sockets

3/4" Square Drive—Thin Straight Walls
Hot Forged from Chrome Molybdenum Steel

Engineered and designed to perform the most strenuous work on large diameter nuts where extra strength and safety are vital. Unnecessary bulk, weight and clumsiness are eliminated. Equipped with a safety snap, lock-on feature. Heat treated for brute strength. Chrome plated, polished walls.

12-Point Sockets

Number	Openings	Height	Wt. Per Doz.	List Price
H-128	7/8	17/8	3 lbs. 12 ozs.	\$1.10
H-130	1 1/16	1 1/8	4 2	1.15
H-131	1 3/32	1 1/8	4 2	1.15
H-132	1 1/2	1 11/16	4 5	1.15
H-134	1 1/2	2	4 8	1.35
H-136	1 1/2	2 1/16	5 1	1.40
H-138	1 3/8	2 1/8	5 4	1.55
H-140	1 1/2	2 3/16	5 10	1.65
H-142	1 3/8	2 1/4	6 6	1.65
H-144	1 3/8	2 3/8	6 15	1.95
H-146	1 7/8	2 3/8	8 7	2.20
H-148	1 1/2	2 7/16	8 7	2.30
H-152	1 3/8	2 1/2	11 13	2.50
H-156	1 3/4	2 5/8	12	3.45
H-158	1 11/16	2 3/4	12 12	3.90
H-160	1 7/8	2 7/8	18 12	3.90
H-164	2	3 5/8	22 8	4.60
H-170	2 3/16	3 3/32	27	5.40

*For V-8 Truck Axle Nuts up to 1934. †For Rear Axle Nuts 1931 to 1933 Chevrolet Trucks. ‡For 1934 and 1935 Chevrolet Trucks. §6-Point opening especially useful on Rim Nuts. ¶Used extensively on Buses.

Heavy Duty Handles

No.	Description	List Ea
H-10	RATCHET HANDLE. Power plus to handle the most obstinate nuts. The use of 36 teeth permits a short throw, insures a grip that is positive, and eliminates slipping. Length 21" long. Weight 4 lbs.	\$13.00
H-13	FLEXIBLE OFFSET HANDLE. Surplus power, distinctive advantages of working efficiency and more speed are featured. A friction spring plunger holds the hinged drive at any angle desired. The knurled handle is cross drilled for insertion of the spinning T Bar No. H-33 which is sold as a unit with the handle. 21" long. Weight 3 lbs. 13 ozs.	6.90
H-21	SLIDING T HANDLE. The forged head slides flush to the ends for use as an offset wrench and a friction ball holds the head firmly at any point. 18" long. Weight 2 lbs. 10 ozs.	3.80
	HEAVY DUTY EXTENSIONS. All Extensions are forged solid. The 3/4" heads are equipped with a retaining hole for positive locking to the Handles. The opposite ends are forged with an offset shoulder which provides a positive socket stop.	
H-25	EXTENSION, 4" long. Weight 10 ozs.	2.00
H-29	EXTENSION, 8" long. Weight 1 lb. 3 ozs.	2.55
H-31	EXTENSION, 16" long. Weight 2 lbs. 4 ozs.	3.15
H-33	T HANDLE BAR, 20" long. Weight 15 ozs. ....	.60

Extra Deep Heavy Duty Socket No. DS-40

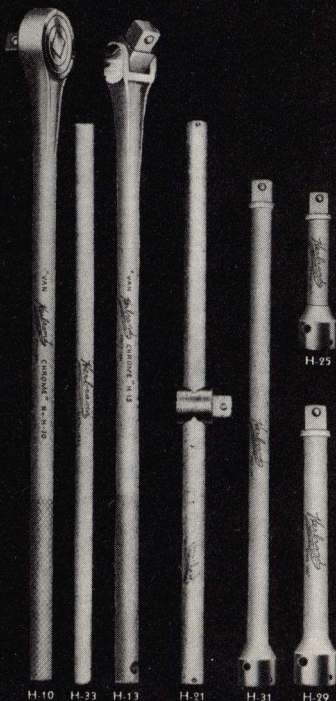
3/4" Drive for Spring Clip U-Bolts

Made extra deep and strong for tightening spring clip U-bolt nuts on International and other trucks and buses. Extra depth takes both regular and locknuts.

6-point 1 1/4" hex opening. Height 3 3/4". Weight 1 lb.
LIST PRICE, each.....\$2.50



H-128 to H-170



H-10

H-13

H-131

H-21

H-31

H-29

Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Easy Time Payment Plan.



Every thoroughly equipped mechanic needs a complete set of "Van-Chrome" Heavy Duty Sockets. These large diameter sockets have many applications and are essential for truck, bus, tractor and industrial work. They are also needed for work on farm and power machinery, road building equipment and all heavy machinery units.

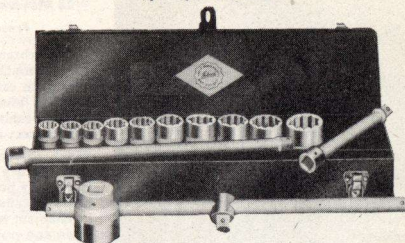
The "Van-Chrome" Heavy Duty Socket line insures faster and easier work because it is designed for maximum handling efficiency. All unnecessary weight and clumsiness has been dispensed with. The sockets have straight walls and even though very thin they can be depended upon to give uninterrupted service under the most strenuous conditions. These 12-point sockets cannot slip from the handle end because they are equipped with lock-on feature which securely holds them in place.

Sockets and Handle Attachments are *Hot Forged* from a special analysis Chrome Molybdenum Steel and are heat treated all the way through. Handsomely finished in Herbrand's lustrous triple nickel plate with highly buffed side walls.

The tool boxes are constructed of heavy gauge steel, finished in durable baked blue wrinkle, and fitted with carrying handle and locking clasps.

Heavy Duty Series Van-Chrome Socket Sets

$\frac{3}{4}$ " Square Drive

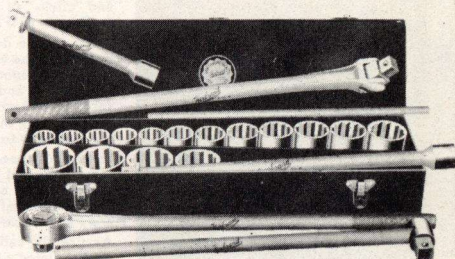


Heavy Duty Socket Set No. HA-80 $\frac{1}{2}$

Contents, total of 14 pieces: 11 "Van-Chrome" Heavy Duty Sockets Nos. H-128, $\frac{7}{8}$ "; H-130, $1\frac{1}{16}$ "; H-131, $1\frac{3}{32}$ "; H-132, 1"; H-134, $1\frac{1}{4}$ "; H-136, $1\frac{1}{2}$ "; H-140, $1\frac{1}{4}$ "; H-144, $1\frac{3}{8}$ "; H-146, $1\frac{1}{2}$ "; H-148, $1\frac{1}{2}$ "; H-152, $1\frac{3}{8}$ ". Sliding T Handle No. H-21. Extensions No. H-29 and No. H-31.

SET No. HA-80, in fibre box. Weight 11 lbs.
LIST PRICE, complete.....\$27.40

SET No. HA-80 $\frac{1}{2}$, in metal box. Weight 16 lbs.
LIST PRICE, complete.....29.90



Heavy Duty Socket Set No. HA-82 $\frac{1}{2}$

Contents, total of 22 pieces: 16 "Van-Chrome" Heavy Duty Sockets with 12-point openings Nos. H-128, $\frac{7}{8}$ "; H-130, $1\frac{1}{16}$ "; H-131, $1\frac{3}{32}$ "; H-132, 1"; H-134, $1\frac{1}{4}$ "; H-136, $1\frac{1}{2}$ "; H-140, $1\frac{1}{4}$ "; H-142, $1\frac{1}{2}$ "; H-144, $1\frac{3}{8}$ "; H-146, $1\frac{1}{2}$ "; H-148, $1\frac{1}{2}$ "; H-152, $1\frac{3}{8}$ "; H-156, $1\frac{3}{8}$ "; H-158, $1\frac{3}{4}$ "; H-160, $1\frac{3}{8}$ " and H-164, 2". 6 Heavy Duty Handles: Ratchet No. H-10; Flex Handle No. H-13 and Spinning T Bar; Sliding T Handle No. H-21 and 2 Extensions Nos. H-29 8" long and H-31 16".

SET No. HA-82, in fibre box. Weight 28 lbs.
LIST PRICE, complete.....\$64.80

SET No. HA-82 $\frac{1}{2}$, in metal box. Weight 36 lbs.
LIST PRICE, complete.....68.30

Heavy Duty Socket Set No. HA-81

(not illustrated)

An assortment of Heavy Duty $\frac{3}{4}$ " Drive Sockets comprising one each of the eighteen sizes, Nos. H-128 to H-170 inclusive listed on page 18.

SET No. HA-81, in fibre box. Weight 10 lbs.
LIST PRICE, complete.....\$42.35

Herbrand INC. EST. 1910
 IPMENT. DIV.

No. S-50 Eventite Tension Ratchet Wrench

18 Movements of the Handle—3-Point Bearing

Precision Made from Select Alloy Steel

The Herbrand Tension Wrench is vitally necessary to every mechanic and repair shop. Many motors which have been carefully reconditioned prove a failure because of block distortion, gasket failure, poor valve action, bearing trouble and loss of power due entirely to incorrect and uneven tightening of studs and nuts.

When you use the Herbrand Eventite you're sure you have factory pressure every time—no guesswork. It is the *only* positive action Tension Measuring Wrench made because of the construction of the pressure mechanism which works on the compound action principle and puts no strain on any parts. Many cheaper wrenches are inferior because once they have been strained, or the exposed indicating needles bent or otherwise thrown out of alignment, they no longer can register correctly. Herbrand developed the ratchet action principle after exhaustive tests of all types because it proved itself permanent and definitely accurate. The pressure mechanism is entirely enclosed.

The dial and carefully guarded moving indicator are colored and so visible from any angle that the correct pressure-stop is always positive—no tricky "lights" and "clicks" to distract the mechanics attention causing him to pull beyond the required tension.

There are no delicate or exposed parts to get out of order, and the housing is of the best Aluminum Alloy for light weight. The compact head reaches into confined places, and the 18 movements of the ratchet, with three-point bearing, found in no other wrench, provide a short swing in limited spaces. Very little exertion is required due to the compound action and 18" handle.

It is equally necessary for the even and correct tightening of nuts and bolts on motor heads, manifolds, brake drums, clutch assemblies, differential housings, bearings, drive shaft pinions, connecting rods, axle nuts, body bolts, spark plugs, or any series of nuts.

Accurately calibrated from 30 to 130 foot pounds. Nickel plated with housing brightly polished. Knurled grip handles. Length 18". Weight 3 lbs. 12 ozs.

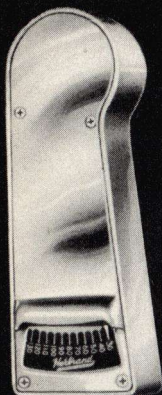
LIST PRICE, each in fibre box.....\$16.00

A chart listing the tensions recommended by car manufacturers accompanies each wrench.

Tension Wrench Adapters for Cylinder Head Nuts

Necessary for tightening and testing cylinder head nuts on overhead valve motors. 12-point box openings on one end, $\frac{1}{2}$ " square drive on the other. Used with No. S-50 Eventite or other tension and torque wrenches. Drop forged. Chrome finish. Height $5\frac{1}{2}$ ".

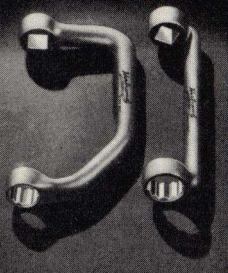
No.	Description	Weight Ea.	List Each
S-60	$\frac{3}{4}$ " short sweep for Chevrolet.....	7 ozs.	\$2.00
S-61	$\frac{3}{4}$ " wide sweep for Chevrolet.....	11 ozs.	2.20
S-62	$\frac{3}{4}$ " short sweep for Buick.....	7 ozs.	2.10
S-63	$\frac{3}{4}$ " wide sweep for Buick.....	11 ozs.	2.25



No. S-50

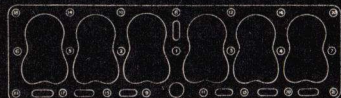


Open View Showing
 Pressure Mechanism with
 18-Point Ratchet Action
 and Compound Leverage



Nos. S-61 & 63

Nos. S-60 & 62



Sequence Guide for Tightening Cylinder Head Nuts

Van-Chrome Reversible Ratchet Speeders

For Sockets—Attachments—Screw Drivers and Drill Bits

Junior $\frac{3}{8}$ " Drive—Standard $\frac{1}{2}$ " Drive

The most versatile and greatest time-saving tool ever offered the mechanic. It combines the utility and smooth working qualities of the renowned Herbrand Reversible Ratchet with all the practical features of the Modern Speeder Handles—two standard principles combined for the greatest efficiency.

Lightweight with body forged in one piece for strength and rigidity. Ratchet parts precisely machined and accurately fitted for perfect operation.

Made in two sizes—the Junior Ratchet which operates on a 20th of a turn, and the Standard Ratchet on the 28th of a turn. Either is instantly reversible, with simple thumb control and no lost motion. Absolutely trouble-proof and engineered on modern, trim lines to work rapidly and freely in cramped quarters.

Both Speeders are designed with a wide sweep and equipped with two large, firm-grip, knurled, revolving handles.

Removable cap handles Nos. J-12H and S-12H are convenient when employing drill or screw driver bits, the chuck for which is supplied with the tool if desired.

The special Adaptors J-12A and S-12A are used when applying the drill chuck.

No. J-12 fits any $\frac{3}{8}$ " drive socket, or attachment. Width of sweep 4".

No. S-12 fits any $\frac{1}{2}$ " drive connection on socket, extension or attachment. Width of sweep 5".

Forged from Chrome Molybdenum Steel and heat treated to insure strength and rigidity. Heavily chrome plated body and knurled grips with brightly polished ratchet cover. Packed one to the box.

Speeder Ratchets and Parts

Junior $\frac{3}{8}$ " Drive

No.	Description	Weight Each Lbs. Ozs.	List Price Each
J-12	Speeder Ratchet Only. Length 9"	1 ..	\$5.75
J-12S	Ratchet Speeder with Cap Handle, Adaptor and Chuck	1 8	8.50
J-12A	Drill Chuck Adaptor Only	1	.90
J-12C	Drill Chuck Only	6	1.60
J-12H	Cap Handle Only	1	.40

Standard $\frac{1}{2}$ " Drive

S-12	Ratchet Speeder Only. Length 11 $\frac{1}{4}$ "	1 12	\$6.85
S-12S	Ratchet Speeder with Cap Handle, Adaptor and Chuck	2 10	10.00
S-12A	Drill Chuck Adaptor Only	3	1.00
S-12C	Drill Chuck Only	10	1.90
S-12H	Cap Handle Only	2	.45





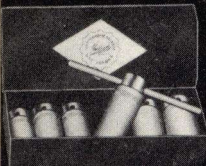
DS-16 to DS-36



DS-10
and
DS-14



DSH-5
and
DSH-6



Set No. DS-7 1/2



Set No. DS-8 1/2



Set No. DS-9 1/2

Extra Deep Socket and Spark Plug Wrenches

1/2" Square Drive—Thin Straight Walls

Hot Forged from Chrome Molybdenum Steel

In addition to fitting all spark plugs these Extra Deep Sockets are invaluable for work on body bolts, spring clips and many other places where an extra long reach is necessary. Designed with 1/2" square drive opening for use with standard handles and cross drilled so that a sliding T bar may be used. *Hot Forged* and heat treated to impart unbreakable strength. The side walls are straight and thin for clearance and the 12-point openings are smooth and deep insuring an accurate, positive fit. Knurled, chrome plated and polished.

Number	Openings	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
DS-16	1 1/2	3	3 6	\$1.20
DS-18	1 1/8	3	3 6	1.20
DS-20	1 1/8	3	3 6	1.25
*DS-22	1 1/8	3	3 8	1.25
DS-24	1 3/8	3	4 1	1.25
§DS-26	1 3/8	3	4 1	1.35
DS-28	1 3/8	3 1/2	4 14	1.50
†DS-28B	1 3/8	3 1/2	4 12	1.50
DS-30	1 3/8	3 1/2	5 4	1.60
‡DS-32	1 3/8	3 1/2	5 7	1.70
DS-34	1 3/8	3 1/2	7 6	1.70
¶DS-36	1 3/8	3 1/2	8 1	1.95

§Fits A.C. 10 mm Plugs. *For Champion 10 mm Plugs. §Fits 14 mm Plugs and all Chevrolets from 1933, also V-8 from 1937 to 1939 inclusive, and Mercury and Zephyr. †Extra Thin for Buick. For Spark Plug Use only. ‡Fits 18 mm. Plug and V-8, 1933 to 1937. ¶For Ford A and 1932 V-8.

Double End Spark Plug Wrenches DS-10 & DS-14

Provide the four necessary hex opening sizes to accurately fit all of the new millimeter spark plugs. Holes are drilled at each end to fit the special 5 1/2" T Handle DSH-5. Chrome Molybdenum Steel. Satin nickel, polished body. Height 3". Weight each 5 ozs.

No. DS-10, openings 9/16" and 5/8".
LIST PRICE, complete with T Handle.....\$1.60
No. DS-14, openings 1 1/16" and 1 3/16".
LIST PRICE, complete with T Handle..... 1.90

Spark Plug Wrench Sets

Recessed spark plugs on modern motors make these Extra Deep Sockets an absolute necessity. The extra depth and thin walls reach easily and turn plugs in the tightest places. The accurate, clean 12-points assure a firm, snug fit eliminating the danger of cracked porcelains or mutilated plugs. A 7" slide T bar No. DSH-6 is supplied with the sets as listed.

SETS DS-7 and DS-7 1/2 contain one each DS-26, DS-28, DS-28B, DS-30, DS-32, DS-36, DSH-6 Handle.
LIST PRICE, No. DS-7, in fibre box. Wt. 2 1/2 lbs..... \$ 9.60
LIST PRICE, No. DS-7 1/2, in metal box. Wt. 3 3/4 lbs..... 10.30
SET No. DS-8 1/2, one each of Nos. DS-26, DS-28, DS-30, DS-32, and DS-36. 5" Extension S-27; Sliding T Bar S-21 and S-26 Adaptor Wrench.
LIST PRICE, in metal box. Weight 4 lbs.....\$12.50
SET No. DS-9 1/2, one each of Nos. DS-18, DS-22, DS-26, DS-28B, DS-30, DS-32 and DS-36 Spark Plug Wrenches. 5" Extension No. S-27; 11" Sliding T Handle No. S-21 and S-26 Adaptor Wrench. Total of 10 pieces.
LIST PRICE, in metal box. Weight 5 lbs. 14 ozs.....\$15.00

Spark Plug Hole Thread Chaser and Cleaner No. 141

14mm and 18mm

Chrome Nickel Steel

The threads in spark plug holes on aluminum heads so widely used are easily crossed, stripped or clogged. When these threads are damaged it is very difficult to replace spark plugs with a tight fit. This double end 14 mm and 18 mm Thread Chaser should be used whenever changing spark plugs to remove dirt, corrosion and realign crossed threads to insure perfectly fitting plugs. Threaded shafts are fluted for easy elimination of chips and the hex body is operated by a spark plug socket or wrench.

Plated in satin nickel. Sized for 14 and 18 metric threads. Overall length 3 1/2". Weight 5 ozs. 6 to the box.

LIST PRICE, each.....\$2.05

Adaptor Wrench No. S-26

For Use with 10mm Spark Plug Adaptors

Chrome Vanadium Steel

The application of 10 mm plugs to cars not drilled for the small size require a reducing adaptor. This special wrench is designed with a bit end that fits the slotted heads of the 10 mm spark plug adaptors and is essential for their installation or removal. The opposite end has a 1/2" square drive connection that fits standard handles and is cross drilled for a T bar.

Length 5". Weight 8 ozs. Satin nickel, polished head.

LIST PRICE, each.....\$1.00

Spark Plug Tool No. 140

For Gap Adjusting and Accurate Gauging

Carries the four feeler gauge sizes required to space the gap between the electrodes on all types of spark plugs.

The adjusting end is machined with the proper slot for setting the electrodes to the spacing required for motor efficiency.

Size of gauges .020" - .51 mm, .025" - .63 mm, .030" - .76 mm, .035" - .89 mm. Length 5". Nickel plated.

LIST PRICE, each.....\$.95

Wire Spark Plug Feeler Gauge No. G-7

8 Sizes for Easy Checking of Spark Plug Gaps

The latest development for accurate spark plug gap spacing. More efficient than a flat blade tool because the round, precision gauges accurately fit the contour of the electrodes. Ends of wires are turned at 90° to set electrodes recessed below the shell.

8 wire gauges 1 3/4" long:—.022; .025; .027; .028; .030; .032; .035; .040. Weight 1 oz.

LIST PRICE, each.....\$1.65



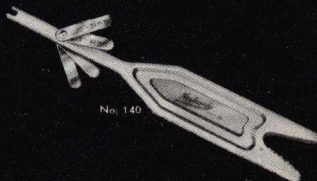
No. 141



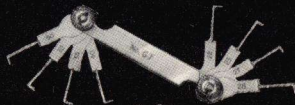
10mm Adaptor as it appears in motor



No. S-26



No. 140



No. G-7

Rollway Workshop DeLuxe Model No. MC-103

A Herbrand Innovation in Service Sales Equipment

**Cabinet Type Portable Workbench With Sliding Panel Door
and Drop Front Magic Tool Chest
Containing 101 Necessary Approved Tools**

**Rolls easily on silent smooth running casters—keeps every tool right
at your fingertips—co-incidental locks protect your tools.**

Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Monthly Time Payment Plan.



(The following page gives contents, specifications and prices.)

Refer to page 151 for Handy Under-the-Car Roller Tray

The DeLuxe Model Combination Cabinet Workbench and Magic Chest, with 101 Approved Tools, is necessary to meet modern service demands. It is the latest development in service, energy and time-saving equipment. Rugged and compact, yet large enough to be a complete self-serve tool room, it is easily wheeled to the immediate job. This complete assortment equips the mechanic for most repair work and is a silent, but effective, Service-Salesman for most any job that rolls into the shop. Roll up the Magic Rollway and impress your customers with the startling array of modern tools that have been engineered to handle every job with precision, speed and economy. Words are unnecessary — showmanship is the sales requisite — impress your trade with the fact that you have the equipment, the experience and ability to do the job better, at less cost and faster. The well-equipped mechanic gets the business and profits.



This closed view shows the handy working ledge of the Rollway. The Tool Chest lifts off readily to make a perfect work bench.

Mechanics automatically turned to Herbrand for a DeLuxe Model Rollway Workbench, because they recognize the value of Herbrand's pioneering experience and ability to develop tools and equipment based on a definite knowledge of their requirements.

Incorporating many new features, it is all formed from heavy gauge steel — no angle iron construction — and is securely bolted for extreme rigidity. When the lid of the Magic Chest is raised, the drop front folds back and is automatically out of the way. The front of the Rollway is a disappearing door panel which slides easily under the top of the bench, giving free access to the large tool drawer and two extra deep shelves which are very convenient for the storage of bulky tools and equipment.

Finished in attractive blue wrinkle enamel, baked on for durability. Fitted with silent, easy-running, swivel casters. Coincidental locks protect the tools.



Action view showing how sliding door panel operates and how the hinged, drop front of the chest automatically folds back out of the way.

Contents, Specifications, Prices DeLuxe Model No. MC-103

The DeLuxe Model, illustrated on page 24, can be purchased complete with the Rollway Workbench, the Magic Chest and the well balanced selection of 101 Tools as listed. The Rollway or Magic Chest may be purchased separately at a nominal cost.

The 101 Tools Supplied with MC-103:

Junior Series Sockets and Handles— $\frac{3}{8}$ " Drive

Seven 12-point "Van-Chrome" Sockets, Nos. J-112, $\frac{3}{8}$ "; J-114, $\frac{5}{16}$ "; J-116, $\frac{1}{2}$ "; J-118, $\frac{9}{16}$ "; J-120, $\frac{5}{8}$ "; J-122, $\frac{11}{16}$ "; J-124, $\frac{3}{4}$ ".

Three 8-point, thin wall Sockets, Nos. J-212, $\frac{3}{8}$ "; J-214, $\frac{1}{2}$ "; J-216, $\frac{1}{2}$ ". Two Extra Deep 12-point Sockets, Nos. J-416, $\frac{1}{2}$ " and J-418, $\frac{9}{16}$ ".

No. J-10 Improved Reversible Ratchet; J-13 Flexible Offset Handle; J-17 Speed Handle; J-27 Extension 5" long; J-35 Universal Joint; J-36 Spring Stabilizer; J-37 Screw Driver Socket and J-33 Sliding T Bar.

Standard Series Sockets and Handles— $\frac{1}{2}$ " Drive

Fifteen 12-point, "Van-Chrome" Sockets, Nos. S-112, $\frac{3}{8}$ "; S-114, $\frac{5}{16}$ "; S-116, $\frac{1}{2}$ "; S-118, $\frac{9}{16}$ "; S-119, $\frac{19}{32}$ "; S-120, $\frac{5}{8}$ "; S-121, $\frac{21}{32}$ "; S-122, $\frac{11}{16}$ "; S-124, $\frac{3}{4}$ "; S-125, $\frac{29}{32}$ "; S-126, $\frac{15}{16}$ "; S-128, $\frac{7}{8}$ "; S-130, $\frac{15}{16}$ "; S-131, $\frac{31}{32}$ " and S-132, 1".

Three 8-point, thin wall Sockets, Nos. S-216, $\frac{1}{2}$ "; S-218, $\frac{9}{16}$ "; S-220, $\frac{5}{8}$ ". Three Extra Deep Sockets, DS-26, $\frac{15}{16}$ "; DS-28, $\frac{7}{8}$ " and DS-32, 1".

Socket Extension Adaptors Nos. A-390 $\frac{3}{8}$ " x $\frac{1}{2}$ " and No. A-391 $\frac{1}{2}$ " x $\frac{3}{8}$ ".

No. S-10 Improved Reversible Ratchet with 28 teeth; S-13 Flexible Offset Handle; S-17 Speeder Handle; S-27 Extension 5" long; S-28 Extension 10" long; S-33 T Handle; S-35 Short Coupled Universal Joint; S-36 Spring Stabilizer; S-37 Drag Link Socket and No. S-41 Screw Driver.

Heavy Duty Series Sockets and Handles— $\frac{3}{4}$ " Drive

Eight 12-point, "Van-Chrome" Sockets, Nos. H-134, $\frac{11}{16}$ "; H-136, $\frac{13}{16}$ "; H-140, $\frac{1}{2}$ "; H-144, $\frac{13}{16}$ "; H-146, $\frac{15}{16}$ "; H-148, $\frac{15}{16}$ "; H-156, $\frac{13}{16}$ "; H-158, $\frac{15}{16}$ ".

No. H-21 Sliding T Handle 20" long; H-25 Extension 4" long; H-29 Extension 8" long and No. A-393 Extension Adaptor Plug $\frac{1}{2}$ " and $\frac{3}{4}$ ".

Miscellaneous Tools

Six Multitype Combination Box and Open End Wrenches, Nos. 1214, $\frac{3}{16}$ "; 1216, $\frac{1}{2}$ "; 1218, $\frac{9}{16}$ "; 1220, $\frac{5}{8}$ "; 1222, $\frac{11}{16}$ " and 1224, $\frac{3}{4}$ ".

Fifteen "Van-Chrome" Assorted Punches and Chisels as follows: Flat Chisels Nos. 401, $\frac{5}{16}$ " x 5"; 402, $\frac{3}{8}$ " x 6"; 403, $\frac{1}{2}$ " x 6". Cape Chisels, No. 410, $\frac{5}{16}$ " x 5"; 412, $\frac{1}{2}$ " x 6". Gouge Chisel No. 421, $\frac{3}{8}$ " x 6". Diamond Point Chisel No. 431, $\frac{3}{8}$ " x 6". Pin Punches, Nos. 443, $\frac{5}{16}$ " x 6"; 444, $\frac{3}{8}$ " x 6"; 445, $\frac{1}{2}$ " x 6"; 446, $\frac{5}{8}$ " x 7". Solid Punches Nos. 451, $\frac{5}{8}$ " x 5"; 452, $\frac{1}{2}$ " x 6" and 453, $\frac{5}{8}$ " x 7". Center Punch No. 471, $\frac{3}{8}$ " x 5". Open End Wrenches: Nos. 1725B, $\frac{1}{2}$ " x $\frac{9}{16}$ "; Special 1027F, $\frac{5}{8}$ " x $\frac{11}{16}$ ".

Protectogrip Insulated Handle Screw Drivers as follows: Nos. 310, 2" blade; 312, 3" blade; 315, $\frac{11}{16}$ " blade; 316, 6" blade.

No. 354 Offset Screw Driver, 6 $\frac{1}{2}$ " long.

Tappet Wrenches, 2 each of No. H-2 with $\frac{1}{2}$ " and $\frac{9}{16}$ " openings and No. H-3 with $\frac{5}{8}$ " and $\frac{11}{16}$ " openings.

Special Pliers: No. 166 $\frac{1}{2}$, Water Pump and General Service Plier; No. 179 Battery Plier; No. 167 Midget Ignition Plier.

No. 652 Protectotip Hammer.

No. MB-3—Rollway. 29" high, 24 $\frac{1}{2}$ " wide, 15 $\frac{1}{2}$ " deep. Weight 64 lbs.

LIST PRICE, DeLuxe Rollway only, No Tools.....\$ 35.00

No. MC-3—Chest. 9" high, 23 $\frac{1}{2}$ " wide, 11 $\frac{1}{2}$ " deep. Drawer 4 $\frac{1}{2}$ " deep. Weight 31 lbs.

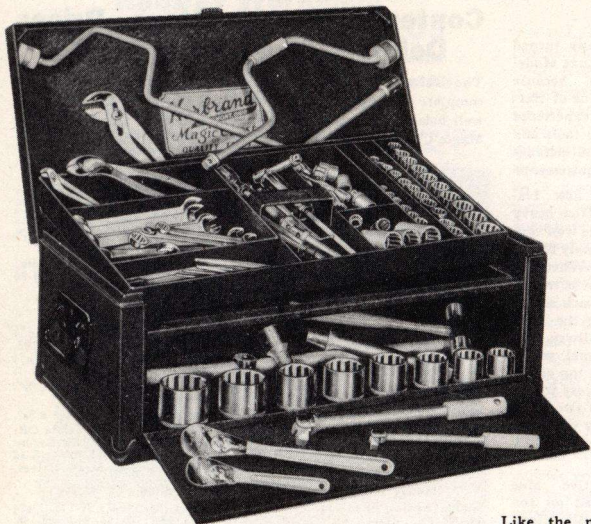
LIST PRICE, Magic Tool Chest only, No Tools.....\$ 23.00

No. MC-T, Approved Selection of 101 Tools as above. Weight 33 lbs.

LIST PRICE, 101 Tools only.....\$120.35

No. MC-103, Combination DeLuxe Rollway, Magic Tool Chest and 101 Approved Tools as above described. Weight 128 lbs.

LIST PRICE, No. MC-103 Rollway and Chest and 101 Tools.....\$170.00



The Magic Chest of 101 Van-Chrome Tools No. MC-101

**Size 23½" Wide, 11½" Deep, 9" High—Fits on Top of
 Rollway Workbench**

A Comprehensive Assortment of Necessary Tools

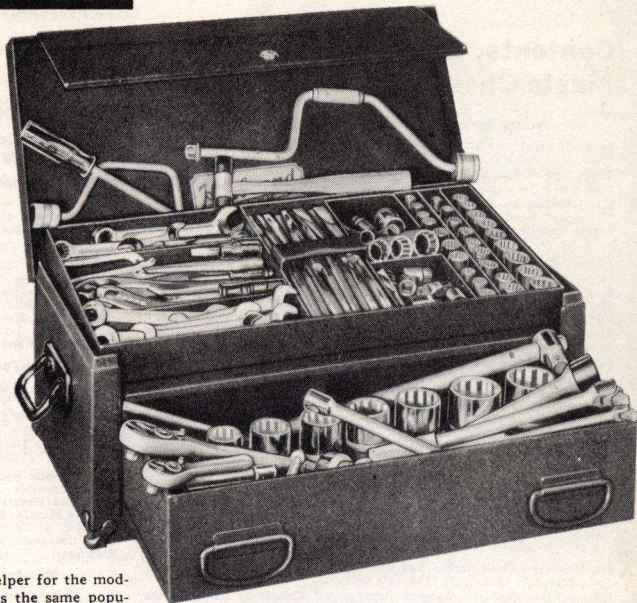


This roomy tool chest is a popular size with mechanics because it fits on Herbrand Rollway No. MB-3 and has large well rounded drop handles on each end for easy transportation. The drop front is hinged for access and full view of the tools.

Like the magic of Aladdin's lamp, when the lid of this Chest is lifted, the sparkle of 101 practical tools of a thousand and one uses transports the mechanic to a complete tool room. All genuine Herbrand "Van-Chrome"—the ultimate in tool perfection. The sturdy Chest of heavy gauge metal will stand the rigors of a lifetime of service and is finished in baked blue wrinkle enamel to resist wear and rust. The tote tray has a convenient carrying handle and is subdivided for keeping tools always in order.

The Magic Chest may be purchased with the comprehensive assortment of 101 tools selected by experts, or the modified set listed on page 28, which is ideal for the beginning of a complete tool chest.

For assortment of tools included in The Magic Chest see listing on page 28



This Magic Helper for the modern mechanic is the same popular chest and tool assortment as used with the Rollway. Keeps the necessary tools right on the job and at your fingertips.

Ingeniously constructed from heavy gauge steel, the accurate fitting lift-front, when opened, exposes the capacious sliding drawer which pulls out easily to a spill-proof stop. Here is ample room for heavy duty sockets, a variety of pullers and other necessary heavy tools. The 23" Tote Tray has many handy compartments for wrenches, pliers, standard and junior sockets, screw drivers and other small tools, always keeping them separate for quick selection. The convenient hand-fit drop handles make it easy to carry all needed tools from job to job.

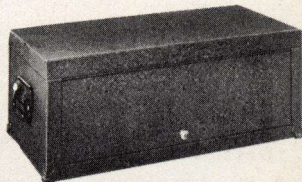
No. MC-104 Magic Chest DeLuxe Model

**With Folding Drop Front—Spill-proof Drawer
 Tote Tray—Lock and 101 Necessary Approved Tools**

**Formed From Heavy Gauge Steel, Welded Reinforced Corners
 Built for Lifetime Service**

Size 9" x 11½" x 23½"
 —Fits on top of Rollway Workshop MB-3.

Attractively finished in blue wrinkle enamel which is baked on for durability. Equipped with chromium plated cylinder lock and keys.



For assortment of tools included in DeLuxe Magic Chest see listing on page 28

Contents, Specifications, Prices Magic Chests MC-101 & MC-104

Junior Series Sockets and Handles— $\frac{3}{8}$ " Drive

Seven 12-point, straight, thin wall Sockets, Nos. J-112, $\frac{3}{8}$ "; J-114, $\frac{3}{16}$ "; J-116, $\frac{1}{2}$ "; J-118, $\frac{9}{16}$ "; J-120, $\frac{5}{8}$ "; J-122, $1\frac{1}{16}$ "; J-124, $\frac{3}{4}$ ".
Three 8-point, thin wall Sockets, Nos. J-212, $\frac{3}{8}$ "; J-214, $\frac{7}{16}$ "; J-216, $\frac{1}{2}$ ".
Two Extra Deep 12-point Sockets, Nos. J-416, $\frac{1}{2}$ " and J-418, $\frac{9}{16}$ ".
No. J-10 Improved Reversible Ratchet; J-13 Flexible Offset Handle; J-17 Speed Handle; J-27 Extension 5" long; J-35 Universal Joint; J-36 Spring Stabilizer; J-37 Screw Driver Socket and J-33 Sliding T Bar.

Standard Series Sockets and Handles— $\frac{1}{2}$ " Drive

Fifteen 12-point, straight, thin wall Sockets, Nos. S-112, $\frac{3}{8}$ "; S-114, $\frac{7}{16}$ "; S-116, $\frac{1}{2}$ "; S-118, $\frac{9}{16}$ "; S-119, $1\frac{1}{16}$ "; S-120, $\frac{5}{8}$ "; S-121, $2\frac{1}{16}$ "; S-122, $1\frac{1}{2}$ "; S-124, $\frac{3}{4}$ "; S-125, $2\frac{3}{32}$ "; S-126, $1\frac{1}{16}$ "; S-128, $\frac{7}{8}$ "; S-130, $1\frac{1}{16}$ "; S-131, $1\frac{1}{32}$ " and S-132, 1".
Three 8-point, thin wall Sockets, Nos. S-216, $\frac{1}{2}$ "; S-218, $\frac{9}{16}$ "; S-220, $\frac{5}{8}$ ".
Three Extra Deep Sockets, DS-26, $1\frac{1}{16}$ "; DS-28, $\frac{7}{8}$ " and DS-32, 1".
Socket Extension Adaptors Nos. A-390 $\frac{3}{8}$ " x $\frac{1}{2}$ " and No. A-391 $\frac{1}{2}$ " x $\frac{3}{8}$ ".
No. S-10 Improved Reversible Ratchet with 28 teeth; S-13 Flexible Offset Handle; S-17 Speeder Handle; S-27 Extension 5" long; S-28 Extension 10" long; S-33 T Handle; S-35 Short Coupled Universal Joint; S-36 Spring Stabilizer; S-37 Drag Link Socket and No. S-41 Screw Driver.

Heavy Duty Series Sockets and Handles— $\frac{3}{4}$ " Drive

Eight 12-point, "Van-Chrome" Sockets, Nos. H-134, $1\frac{1}{16}$ "; H-136, $1\frac{1}{8}$ "; H-140, $1\frac{1}{4}$ "; H-144, $1\frac{3}{8}$ "; H-146, $1\frac{1}{2}$ "; H-148, $1\frac{1}{2}$ "; H-156, $1\frac{3}{4}$ "; H-158, $1\frac{3}{4}$ ".
No. H-21 Sliding T Handle 20" long; H-25 Extension 4" long; H-29 Extension 8" long and No. A-393 Extension Adaptor Plug $\frac{1}{2}$ " and $\frac{3}{4}$ ".

Miscellaneous Tools

Six Multitype Combination Box and Open End Wrenches, Nos. 1214, $\frac{7}{16}$ "; 1216, $\frac{1}{2}$ "; 1218, $\frac{9}{16}$ "; 1220, $\frac{5}{8}$ "; 1222, $1\frac{1}{16}$ " and 1224, $\frac{3}{4}$ ".
Fifteen "Van-Chrome" Assorted Punches and Chisels as follows: Flat Chisels Nos. 401, $\frac{9}{16}$ " x 5"; 402, $\frac{3}{8}$ " x 6"; 403, $\frac{1}{2}$ " x 6". Cape Chisels, No. 410, $\frac{9}{16}$ " x 5"; 412, $\frac{1}{2}$ " x 6". Gauge Chisel No. 421, $\frac{3}{8}$ " x 6". Diamond Point Chisel No. 431, $\frac{3}{8}$ " x 6". Pin Punches, Nos. 443, $\frac{9}{16}$ " x 6"; 444, $\frac{3}{8}$ " x $6\frac{1}{2}$ "; 445, $\frac{3}{8}$ " x $6\frac{3}{8}$ "; 446, $\frac{3}{8}$ " x 7". Solid Punches Nos. 451, $\frac{3}{8}$ " x 5"; 452, $\frac{1}{2}$ " x 6" and 453, $\frac{5}{8}$ " x 7". Center Punch No. 471, $\frac{3}{8}$ " x 5".
Open End Wrenches: Nos. 1725B, $\frac{1}{2}$ " x $\frac{9}{16}$ "; Special 1027F, $\frac{5}{8}$ " x $\frac{1}{16}$ ".
Protectogrip Insulated Handle Screw Drivers as follows: Nos. 310, 2" blade; 312, 3" blade; 315, $1\frac{1}{4}$ " blade; 316, 6" blade.
No. 354 Offset Screw Driver, $6\frac{1}{2}$ " long.
Tappet Wrenches, 2 each of No. H-2 with $\frac{1}{2}$ " and $\frac{9}{16}$ " openings and No. H-3 with $\frac{5}{8}$ " and $1\frac{1}{16}$ " openings.
Special Pliers: No. 166 $\frac{1}{2}$ Improved Water Pump and General Service Plier; No. 179 Battery Plier; No. 167 Midget Ignition Plier.
No. 652 Protectotip Hammer.

No. MC-101, Magic Chest with 101 Tools as listed above and illustrated on page 26. Weight 55 lbs.

LIST PRICE, complete, Chest and Tools.....\$135.00

No. MC-2, Magic Chest as illustrated on page 26. Weight 23 lbs.

LIST PRICE, Chest only.....\$ 16.00

No. MC-104, Magic Chest DeLux with 101 Tools as listed above and illustrated on page 27. Weight 64 lbs.

LIST PRICE, complete, Chest and Tools.....\$140.00

No. MC-3, DeLux Magic Chest as illustrated on page 27. Weight 32 lbs.

LIST PRICE, Chest only.....\$ 23.00

No. MC-T, Approved Selection of 101 Tools as above. Weight 33 lbs.

LIST PRICE, 101 Tools only.....\$120.35

Magic Chest MC-57

With Modified Assortment
of 56 Tools

Junior Series Sockets and Handles

Seven straight wall, extra thin 12-point Sockets, sizes $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ", $1\frac{1}{16}$ " and $\frac{3}{4}$ ".

Three 8-point Sockets, sizes $\frac{3}{8}$ ", $\frac{7}{16}$ " and $\frac{1}{2}$ ".

Eight Handles and Attachments: Nos. J-10 Reversible Ratchet; J-21 Sliding T Handle; J-17 Speed Handle; J-27 5" Extension; J-33 Spinning T Bar; J-35 Universal Joint; J-36 Stabilizer and J-37 Screw Driver.

Standard Series Sockets and Handles

Fifteen extra thin, straight 12-point Sockets, sizes $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $1\frac{1}{16}$ ", $\frac{5}{8}$ ", $2\frac{1}{32}$ ", $1\frac{1}{16}$ ", $\frac{3}{4}$ ", $2\frac{3}{32}$ ", $1\frac{1}{16}$ ", $\frac{7}{8}$ ", $1\frac{1}{16}$ ", $1\frac{3}{32}$ " and 1".

Three Extra Deep 12-point Sockets, sizes $1\frac{1}{16}$ ", $\frac{7}{8}$ " and 1".

Three 8-point Sockets, $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ".
Seven Handles and Attachments: Nos. S-10 Reversible Ratchet; S-17 Speeder Handle; S-21 Sliding T Handle; S-27 5" Extension; S-33 T Bar; S-35 Universal Joint; S-36 Spring Stabilizer.

Miscellaneous Tools

Four Combination Box and Open End Wrenches, $\frac{7}{16}$ ", $\frac{1}{2}$ ", $\frac{9}{16}$ ", $\frac{5}{8}$ ".
Three Protectogrip Screw Drivers: Nos. 310, 2" blade; 312, 3" blade; 315, $1\frac{1}{4}$ " blade.

No. 166 Multigrip Plier, No. 167 Midget Plier and No. 652 Hammer.

SET No. MC-57, containing one each of the 56 tools described above, including the same sturdy chest illustrated for set MC-104. Weight 46 lbs.

LIST PRICE, complete.....\$82.00



No. MC-57 Magic Chest

Van-Chrome Body and Fender Tools

For Modern Application

Matched—Balanced—Distinctive—Original

(Patents Applied For)

Forged from Chrome Alloy Steel—No Castings

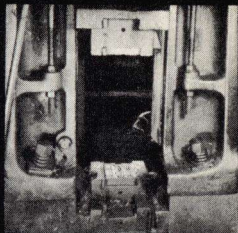
Car dealers and garage men recognize the importance of using only the finest tools, of extremely careful and accurate construction and ultra modern design, for body and fender work on today's cars. In the past, little attention has been paid to the needs of the repair shop and garage man regarding adequate body and fender equipment. Most tools were designed for the car manufacturer, who usually works on unfinished metal and does not have to contend with the intricate repairing of smashed bodies and crumpled fenders. The repair man must contend with this condition and turn out finished work equal in quality with a new factory job.

To achieve the correct design and to fit the new streamlined bodies and fenders, special and extensive surveys were made by Herbrand, using the experience of specialists and expert mechanics. For that reason the "Van-Chrome" line of Body Bumping and Fender repair equipment to speed up work and produce it on a profitable basis.

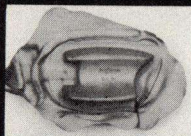
Every tool is drop forged or hand forged and no castings whatsoever are used. They are precision made from exact dies and every working surface is given a mirror-like finishing smoothness that results from seven grinding, buffing and polishing operations. Extreme care has been taken to provide the correct shape, contour, balance, weight and leverage so mechanics can readily select the right tool for any specific condition.

Shops may be filled with equipment and yet be at a loss to handle this profitable body and fender work with inadequate and outmoded tools. The Herbrand line is entirely original and includes every required tool to fit the angles, curves, contours, for every conceivable condition and for efficient work in the most hard-to-get-at places so prevalent in the new streamlined body and fender designs. These tools are guaranteed to be mechanically fitted for their specific use.

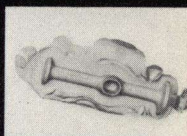
All "Van-Chrome" Bumping Hammers and Dolly Blocks are Drop Forged. Illustration Shows Typical Mated Dies of Bumping Hammers in Position for Drop Forging.



Dies from which "Van-Chrome" Anvils or Dolly Blocks are Drop Forged.



Anvil or Dolly Block as it Comes from Drop Hammer Before Trimming.



Hammer Head as it Comes from the Drop Forge Before Trimming Off Flash.

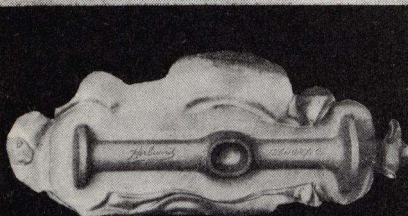


Trimming Dies Used in Powerful Presses to Remove Flashing from Hammer Heads and Bumping Blocks.

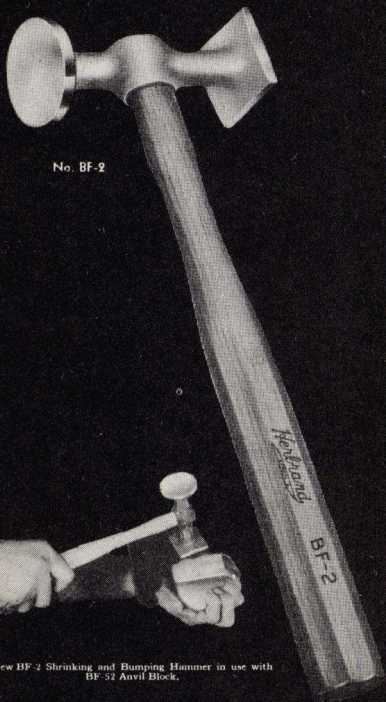


"Van-Chrome" Bumping and Prying Spoons are Hand Forged on Automatic Trip Hammers and Accurately Shaped on the Blacksmith's Anvil.

Herbrand
— since 1890 —



Drop Forging of Hammer Head
Before Flashing is Trimmied Off.



No. BF-2

New BF-2 Shrinking and Bumping Hammer in use with
BF-52 Anvil Block.

Van-Chrome Body and Fender Hammers

**Perfectly Balanced—Precision Polished—
Flat Machined Faces**

Drop Forged from Chrome Alloy Steel

The eleven specially designed, Matched Bumping Hammers in this streamlined set give the body worker a complete range for every conceivable type of body and fender work. Each hammer has two different heads and faces doubling their utility. "Van-Chrome" Hammers differ from the conventional type because they are original in design with heads perfectly balanced from the eye of the handle. The weights are carefully calculated and the flat faces are precision ground and highly polished to an unblemished smoothness to bring out the exact shape that the job requires, which is highly essential to avoid damage, stretching of metal and for perfect workmanship. Individually drop forged from a special analysis of Chrome Alloy Steel, double normalized to relieve all forging strains, scientifically heat treated for toughness, strength and extreme resistance to constant shock. Symmetrical shanks of minimum thickness provide maximum clearance.

The lacquered handles are first grade, second growth white hickory with hand shaped octagon grip, eliminating the tense "strangle hold" so detrimental to perfect control and accuracy. Hammer heads are permanently held on the handles by a patented, corrugated, drop forged wedge. Highly polished, perfectly smooth flat faces, blue enamel bodies. Fully guaranteed.

BF-2 Metal Shrinking and Bumping Hammer *Extra Wide Round and Square Faces*

A New Hammer with extra wide faces which is very essential for shrinking metal when heat is applied. This latest in shrinking hammers also makes an ideal bumping and finishing hammer. Both faces are perfectly flat, eliminating the hazard of stretching soft metal.

Diameter of round face $1\frac{1}{8}$ ", square face $1\frac{1}{8}$ ". Head $4\frac{1}{4}$ " overall. Clearance from handle to faces $1\frac{3}{4}$ ". Length 12". Weight 1 lb. 4 to the box.

LIST PRICE, each \$4.15

BF-11 Light Weight Bumping Hammer *Combination Small and Large Round Faces*

This latest contribution in body workers hammers is the result of a definite demand by mechanics for a small, lightweight hammer. It is especially practical under late model fenders, in back curves, cowl, trunks and headlights.

Diameter of faces $1\frac{1}{4}$ " and $1\frac{1}{8}$ ". Head $4\frac{1}{4}$ " overall. Length 12". Weight 1 lb.

LIST PRICE, each \$4.15

Van-Chrome Body and Fender Hammers

**Perfectly Balanced—Tough,
Machined Flat Faces**

Drop Forged from Chrome Alloy Steel

Three prominent members of the Streamlined Bumping Hammer Family that represent the ultimate in perfection and toughness. The complete assortment of hammers in this series is required to cover the wide variety of jobs encountered. Each hammer will perform its particular function with ease and the certainty that it will deliver perfect workmanship. Fully guaranteed against breakage.

No. BF-6 Long Straight Roof and Finishing Hammer

Combination Cross Pein and Flat Face

A newly designed Hammer with a long straight chisel-nose shank for raising low spots in difficult places on all steel tops. Also very efficient for work on doors, trunks and under cowls.

Highly polished, perfectly smooth face and straight long chisel-nose shank. Diameter face $1\frac{1}{16}$ ". Head overall $7\frac{7}{8}$ ". Clearance from handle to chisel-nose $5\frac{1}{4}$ "; from handle to face $1\frac{5}{8}$ ". Length 12". Weight 14 ozs. 4 to the box.

LIST PRICE, each.....\$4.15

No. BF-7 Long Curved Roof Rail Hammer

Combination Curved Cross Pein and Flat Face

The long curved chisel-nose shank is ideal for working under roof rails and for raising low spots in difficult places like all-metal tops, deep skirted fenders, cowls, fender wells, etc.

Highly polished, perfectly flat, smooth face and curved shank with chisel-nose. Diameter of face $1\frac{1}{8}$ ". Head overall $7\frac{7}{8}$ ". Clearance from handle to face $1\frac{3}{8}$ "; from handle to end of shank $4\frac{3}{4}$ ". Length 11". Weight 14 ozs. 4 to the box.

LIST PRICE, each.....\$4.15

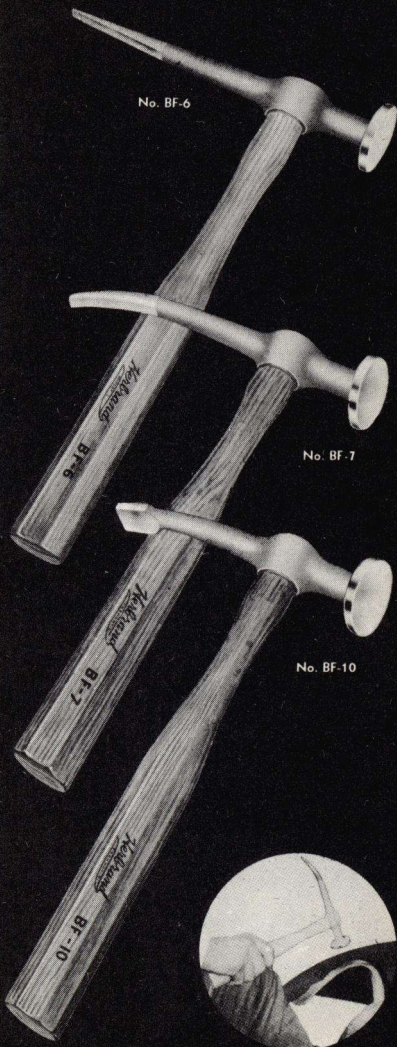
No. BF-10 Flat Nose Roof Rail and Finishing Hammer

Combination $\frac{3}{4}$ " Curved Cross Pein and Flat Face

Curved shank Inside Moulding Hammer especially adapted to raising roof rails and working inside all mouldings and rolled under fenders.

Highly polished, perfectly smooth, flat face and curved shank. Diameter face $1\frac{5}{8}$ ". Head overall $6\frac{1}{4}$ ". Clearance from handle to face $1\frac{1}{8}$ "; from handle to end of shank $3\frac{3}{4}$ ". Length 12". Weight 14 ozs. 4 to the box.

LIST PRICE, each.....\$3.75



Herbrand
INCORPORATED

Van-Chrome Body and Fender Hammers

**Perfectly Balanced—
 Tough, Highly Polished Flat Faces**

Drop Forged from Chrome Alloy Steel

Specifically designed for modern application to damaged metal in fenders and bodies, they definitely obsolete the outmoded, inefficient hammers generally used. Oftentimes costly damage is created by ill directed strokes, uneven faces and wrong contours. "Van-Chrome" Hammers are styled for the highest degree of efficiency and accuracy on present day cars.

No. BF-8 Balanced Ding Hammer

Combination Large and Small Round Faces

This is the only perfectly balanced Double End Ding Hammer made with two round heads and large and small flat faces. It will hit a solid flat blow in a great many places where it is impossible to reach with any other shape hammer. From the center of the handle eye, both ends weigh exactly the same.

Double faces, diameters $1\frac{1}{4}$ " and $1\frac{3}{8}$ ". Head overall $6\frac{1}{8}$ ". Clearance small face to handle $2\frac{7}{8}$ "; large face to handle $2\frac{1}{16}$ ". Length 12". Weight 1 lb. 6 ozs. 4 to the box.

LIST PRICE, each.....\$3.75

No. BF-4 Long Low Spot Pick Hammer

Combination Acorn Shaped Pick and Flat Face

A Double End Hammer with a very essential pick punch used to bump out small low spots while filing metal. Will pay for itself with the amount of solder saved. The pick point is specially designed to penetrate sound proofing material extensively used on tops, bodies and doors.

Diameter flat face $1\frac{5}{8}$ ". Head overall 6". Clearance from face to handle $1\frac{3}{4}$ "; from handle to pick $3\frac{3}{4}$ ". Length 12". Weight 13 ozs. 4 to the box.

LIST PRICE, each.....\$3.75

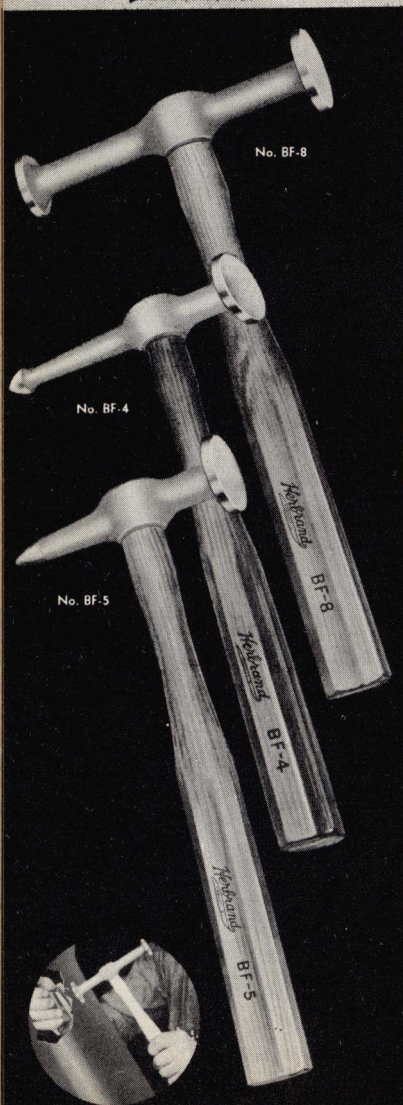
No. BF-5 Short Low Spot Pick Hammer

Combination Point Pick and Flat Face

The extra sharp point is exceptionally handy for bumping out very small low spots and is used mostly when working under fenders. It is perfectly balanced and the flat face of the opposite end also makes it an ideal finishing hammer.

Diameter face $1\frac{3}{8}$ ". Head overall $4\frac{7}{8}$ ". Clearance from face to handle $1\frac{1}{4}$ "; from point to handle $2\frac{3}{8}$ ". Length 12". Weight 12 ozs. 4 to the box.

LIST PRICE, each.....\$3.75



Van-Chrome Body and Fender Hammers

**Perfectly Balanced—
Tough, Machined Flat Faces**

Drop Forged from Chrome Alloy Steel

There is no such thing as having too many hammers because each "Van-Chrome" is originally designed for a specific purpose and to produce perfect results with the utmost facility. Time was when mechanics could "get by" with ancient, conventional hammers, but the new streamlined body and fender designs demand the Ultra Modern, Herbrand Matched Hammers.

No. BF-1 Ball End Hammer

Combination Long Shank—Ball End and Flat Face

A Dual-Use Hammer combining a perfect ball end for raising large low spots, and a flat finishing face. Very handy in window corners. Perfectly balanced and expertly finished.

Highly polished smooth flat face and ball. Diameter face $1\frac{5}{8}$ ". Head overall 6". Clearance from handle to ball $3\frac{3}{8}$ "; from handle to face $1\frac{1}{16}$ ". Length 12". Weight 14 ozs. 4 to the box.

LIST PRICE, each.....\$3.75

No. BF-3 Cross Pein and Finishing Hammer

Combination Chisel-Nose and Flat Face

Necessary for finishing in close places, sharp corners, panel beading, fender beading, around mouldings and for caulking. An ideal ding and finishing hammer with a flat face on one end and a wide nose cross pein on the other.

Highly polished face and pein. Diameter face $1\frac{5}{8}$ ". Head overall $5\frac{1}{8}$ ". Clearance from handle to pein $2\frac{3}{4}$ "; from handle to face $1\frac{5}{8}$ ". Length 12". Weight 12 ozs. 4 to the box.

LIST PRICE, each.....\$3.75

No. BF-9 Offset Moulding Hammer

Offset Special Angle, Round and Square Faces

One of the most useful hammers ever designed because it works close to the body without striking it. Also saves much time working under headlights without removing them. Will hit a solid flat blow in a great many places inaccessible with the average straight faced hammer.

Highly polished perfectly smooth flat faces. Diameter of round face $1\frac{3}{8}$ "; square face $1\frac{1}{4}$ ". Head overall $6\frac{1}{4}$ ". Clearance from handle to faces $2\frac{1}{2}$ ". Length 12". Weight 14 ozs. 4 to the box.

LIST PRICE, each.....\$3.75



Van-Chrome Body and Fender Spoons

Rigid—Long Reach—Necessary Contours

Hand Forged from Chrome Alloy Steel

They enlarge the scope of body and fender repair work, provide an extra reach, have every conceivable contour and ding out dents inaccessible to dolly blocks. Essential for bending and prying and the wide flat faces will not cause damage. Heavy, rigid construction and heat treated. Working surfaces have an unblemished smoothness acquired from seven grinding and polishing operations.

No. BF-31 Inside Pry and Surfacing Spoon

For Prying and Bumping Operations

Where a Driving Spoon is necessary in limited spaces this short handled tool will be found invaluable. Also works efficiently as a pry spoon behind braces and edges of panels.

Length 14". Weight $2\frac{1}{4}$ lbs. 4 to the box.

LIST PRICE, each.....\$4.55

No. BF-34 Pry and Bumping Spoon

Combination Long Leverage Bar and Anvil Face

A Double End, Heavy Duty General Purpose Door and Body Pry Spoon with wide, slightly crowned faces. The blades are ingeniously angled to produce the proper leverage in every conceivable position. Essential for prying and bumping on all-metal doors, cowls, aprons, fenders and working back of inner structures.

Length 22". Weight 4 lbs. 2 ozs. 1 to the box.

LIST PRICE, each.....\$8.30

No. BF-33 General Purpose Spoon

Two Anvil Faces With Unusual Contours

An Ideal Drive Spoon with extra wide oval faces shaped to fit the contour of most parts of the body. Useful for driving out drip moulding, deck panels, beading and headlight work. Efficient behind steel braces, for cowl work and for prying.

Length 15". Weight 2 lbs. 9 ozs. 1 to the box.

LIST PRICE, each.....\$6.60

No. BF-37 Paneling Spoon

Valuable New Spoon—Extra Thin Wide Faces

Properly used, this extra thin Double End Spoon eliminates cracking or destroying paint finish when straightening large indentations. The spoon is applied to the painted surface and tapped with the hammer instead of striking the metal itself. These spoons are properly heat treated for normal use, but due to necessary thinness cannot be abused with a heavy hammer.

Length $10\frac{1}{2}$ ". Faces $1\frac{3}{16}$ " x 3" and $2\frac{1}{2}$ " x $3\frac{1}{2}$ ".
Weight 7 ozs.

LIST PRICE, each.....\$5.00

No. BF 34

No. BF 37

No. BF 31

No. BF 33



Van-Chrome Body and Fender Spoons

Long Reach—Necessary Contours—Tough
Hand Forged from Chrome Alloy Steel

The toughest job on streamlined bodies and skirted fenders becomes routine with these Master Tools. They incorporate the latest engineering principles, the finest materials and the most skilled craftsmanship. Every Spoon in this line is hand forged from a select grade of Chrome Alloy Steel. Herbrand blue lacquer on the bodies and the extra fine, highly polished faces of these tools identify these Modern Spoons.

No. BF-36 Inside Door, Pry and Drive Spoon

Long Leverage—Offset Handle

Unequalled for driving and prying out door panels especially around the edges without removing the inner structure. Practical for use inside of trunks. The extra heavy construction is designed for driving with a heavy sledge hammer. Offset for clearance in tough spots.

Offset 4". Length 21". Weight 4 lbs. 2 to box.

LIST PRICE, each.....\$7.90

No. BF-32 Fender Bead and Flange Tool

A Combination Flange Tool and Spoon

The hook end is for running board work and to straighten the turned under bead on fenders. The spoon end has a wide anvil face for backing up and is also used to drive out roof rails, drip mouldings, deck panels and for caulking.

Length 16". Weight 2 lbs. 12 ozs. 2 to the box.

LIST PRICE, each.....\$6.60

No. BF-35 Roof Rail Pry and Bumping Spoon

Double End Short Curves for Close Quarters

The unusual curves are shaped to fit all-metal tops and roof rails. Sufficiently heavy for use as a backing up dolly. Gets into tight spots and provides ample leverage for prying out metal, eliminating all unnecessary hammering.

Length 14". Weight 3 lbs. 2 ozs. 1 to the box.

LIST PRICE, each.....\$7.90

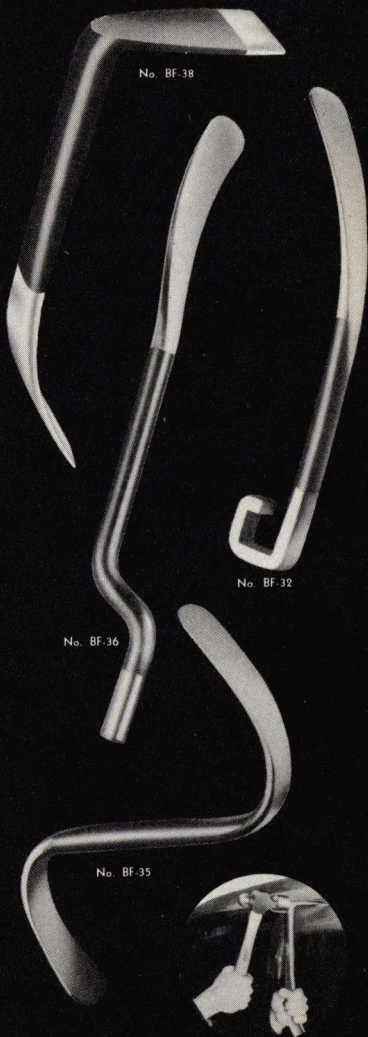
No. BF-38 Offset Caulking Spoon

A Double End Driving Spoon

Either end is equally efficient for driving under brackets and driving out drip moulding and top quarter panels. The offset end has many uses—corners around the door jam and doors, running boards, edges of fenders, and a multitude of hard-to-reach jobs.

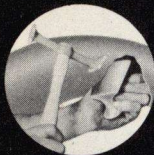
Offset end 4" long, 2" wide. Spoon 2½" wide. Length 15". Weight 2 lbs. 12 ozs. 2 to the box.

LIST PRICE, each.....\$6.60





No. BF-51



No. BF-52



No. BF-53



No. BF-54



Van-Chrome Body and Fender Anvil Blocks

4 Blocks—Obsolete Conventional Dollies

Drop Forged from Chrome Alloy Steel—No Castings

Herbrand did not imitate the old-fashioned conventional dollies, but originated 4 Anvil Blocks of unusual efficiency. In reality these blocks are miniature anvils, very finely finished and ingeniously constructed to produce perfect results. They have safety hand-grips for use under deep skirted fenders, where the long reach does not permit the use of a hammer. The shapes, contours and sizes are just right to fit any of the unusual curves and formations so widely used in streamlined bodies and fenders. Drop forged, heat treated, accurately ground and finished to mirror-like smoothness.

No. BF-51 General Purpose Anvil Block

This Distinctive New Herbrand Block is one of the handiest ever developed. The wide, curved faces fit the contours of practically all parts of the body, fenders and doors on today's streamlined cars, and the small oval works perfectly on outside curves where the finishing hammer is used on the inside of the work. It fits the natural grip of the hand and is unusually well adapted to bumping out low spots and dents where the hammer and anvil action cannot be used.

Length 4". Height 2 1/4". Width 2 3/4". Anvil faces 3" x 3" and 1 1/8" x 4". Weight 3 lbs. 1 to the box.

LIST PRICE, each.....\$5.80

No. BF-52 Anvil Raising Block

Made especially for deep skirted fenders and around rolled edges with a semi-flat surface for shrinking when heat is applied. The hand has plenty of clearance from the hot metal and in close places it may be gripped for a swinging blow without injury to fingers.

Size 2 3/8" x 2 5/8" x 2 7/8". Weight 3 lbs. 5 ozs.

LIST PRICE, each.....\$5.40

No. BF-53 High Crown Anvil Block

For all types of high crown fenders and other bumping operations. The narrow end is used to back up inside of mouldings, while the larger end is used as a raising block. Fits every high crowned contour.

Length 4 1/2". Width 2 5/8". Height 1 7/8". Weight 3 lbs. 14 ozs. Individually boxed.

LIST PRICE, each.....\$5.00

No. BF-54 Roof Wedge Anvil Block

The sharp, tapered wedge is for driving out roof rails, behind brackets and is very useful under fender braces. The face is almost flat, making a handy anvil for a wide variety of uses.

Length 5 1/4". Width 2 3/8". Height 1 3/4". Weight 3 lbs. 7 ozs. Packed 1 to the box.

LIST PRICE, each.....\$5.00

BF-81 Van-Chrome Fender Bead Plier

10 to 1 Leverage—Compound Action

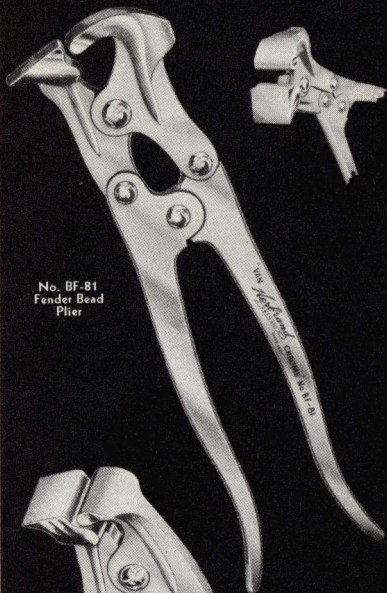
Drop Forged from Chrome Vanadium Steel



Every body worker should have this Forming Plier for perfect edging of damaged fenders. Fenders are made from heavy gauge steel and the fender edging or bead is not readily reshaped. This tool combines the principle of a compound leverage plier and fender dolly. The wedge nose on the lower jaw is used to pull out turned under beads to insert the mated forming jaws. Forming is readily accomplished by gripping the bead firmly in the plier jaws and employing a rotating motion. The flat spot on top of the jaw can be struck with a hammer to assist in the forming operation. The inside of the jaws are undercut to allow ample clearance for the roll of the fender.

Satin nickel finish. Length 9¼". Weight 18 ozs.

LIST PRICE, each.....\$5.00



No. BF-81
Fender Bead
Plier

BF-80 Van-Chrome Drip Rail Forming Plier

Compound Action—10 to 1 Power

Drop Forged from Chrome Vanadium Steel



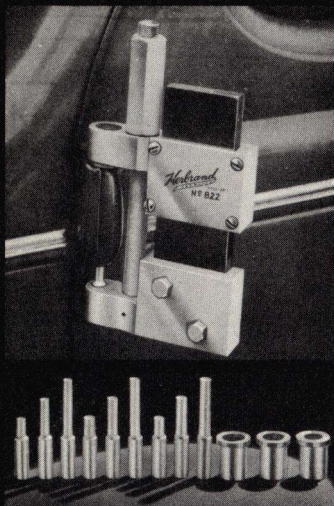
Crushed-in Drip Rails are quite common and present a real repair problem to the body worker because there has been no adequate tool to perfectly restore them without the expenditure of hours of time and grief. Herbrand's Distinctive Plier develops 10 to 1 power to squeeze out damaged drip rails with an ordinary grip. The lower jaw has a wedge shaped nose for prying crushed drip rails away from the body to insert the rail forming die of the upper jaw. The forming die of the lower jaw is the correct depth to bring out the exact contour. There is ample under-cut on the inside of the upper jaw to clear the beading and the long sweep on top of the jaw clears the top of the body when shaping the drip rail.

Satin nickel finish. Length 9¼". Weight 18 ozs.

LIST PRICE, each.....\$4.50



No. BF-80
Drip Moulding
Plier



No. 822 Complete with Adaptors



No. BF-91



No. BF-92

Hinge Pin Pusher 822

For Easy Removal of Door Hinge Pins

On most cars there is not sufficient clearance to remove hinge pins by the old-fashioned pin punch and hammer method due to fender obstructions, body bulges, and close proximity to running boards. No. 822 Hinge Pin Pusher works on the forcing screw principle and exerts a straight pushing pressure so powerful that stubborn or corroded pins break loose and lift out with ease. The forcing screw sets back, away from the body so that there is plenty of clearance to revolve the hexagon turn down nut with wrench. The danger of damaging paint is eliminated.

Three short starter pilots, three medium length pilots and three long finishing pilots, which fit in the base socket, are supplied as part of this tool. The short starter pilots should be used to break loose and partially push out the hinge pin. The long finishing pilots are then used to completely drive them out. The medium length pilots are used when the short pilots do not push the pin far enough for the use of the finishing pilots. The sizes of these pilots are $\frac{15}{64}$ ", $\frac{17}{64}$ ", $\frac{19}{64}$ ", to fit all standard hinge pins. Three removable bushings are furnished in three different sizes, $\frac{37}{64}$ ", $\frac{17}{32}$ ", $\frac{19}{32}$ ", to handle the various size hinge pin heads, while the bushing receptacle in the tool itself provides an additional larger opening.

Satin nickel. Capacity $2\frac{1}{4}$ " to $5\frac{1}{2}$ ". Wt. 5 lbs.

LIST PRICE, complete.....\$12.00

Door Handle Pin Punch & Flange Depressor BF-91

Avoids Damage to Upholstery and Hardware

Mechanics know how awkward it is to depress the door handle flange or escutcheon plate to drive out the handle retaining pin. This fast operating tool has two prongs for forcing back the escutcheon plate—and a pin punch between, which drives out the pin in one operation.

Satin nickel. Length 6". Weight 4 ozs.

LIST PRICE, each.....\$1.50

Glass Remover BF-92

Removes Glass or Fabric from Window Channels

Wherever broken glass is removed from window channels for replacement, this handy new tool does a safe and perfect job. The chisel-edge gets under the glass and the blade is curved for proper leverage and easy prying. Correctly shaped and sized for efficient results on wing windows. The handle is genuine pyralin and is break-proof.

$\frac{1}{4}$ " nickel blade. Length $10\frac{1}{2}$ ". Weight 3 ozs.

LIST PRICE, each.....\$1.40

Fender Bolt Plier No. 158

Holds Bolts on Fenders, Running Boards, Bodies
Drop Forged from Chrome Vanadium Steel

To take apart and reassemble fenders and running boards, and remove them from frames, usually requires two men because the bolts are rusted and frozen and must be firmly held for turning off the nuts. This special, new Herbrand plier action tool exerts a mighty leverage and the bolt head is held in a vise-like grip by the screw driver joint. The claw end is designed for ample clearance of all obstructions so that a socket wrench can be used for removing the nuts.

Expert heat treating applied to this drop forged Chrome Vanadium Steel Plier gives the strength and rigidity required. Finished in satin nickel.

Length 11". Weight 14 ozs. Packed 6 to the box.

LIST PRICE, each.....\$3.30

Panel Cutting Tool 496

Cuts Out Tops, Sides and Other Body Parts

Cuts to a Clean, Straight, Even Edge

Cuts through body steel like a knife and is also used to cut sheet metal. Entire tops, sides or other parts necessary for body repair are cut out cleanly and evenly insuring a master job of welding in new panels.

The head is placed at the correct angle for clean, even and efficient cutting and to provide ample knuckle clearance. The tool is designed for perfect visibility under all conditions.

With a sharp hammer blow drive the Cutter through the metal at any desired starting point, then it is easily guided in any direction.

Made from Octagon Alloy Steel—cutter blades replaced by removing 2 fillister head screws. When used for the work intended, the Alloy Steel cutter will deliver long, satisfactory service but it is not guaranteed. Length 10". Weight 13 ozs. Finished in satin nickel.

No. 496, Tool, complete..LIST PRICE, ea...\$2.00

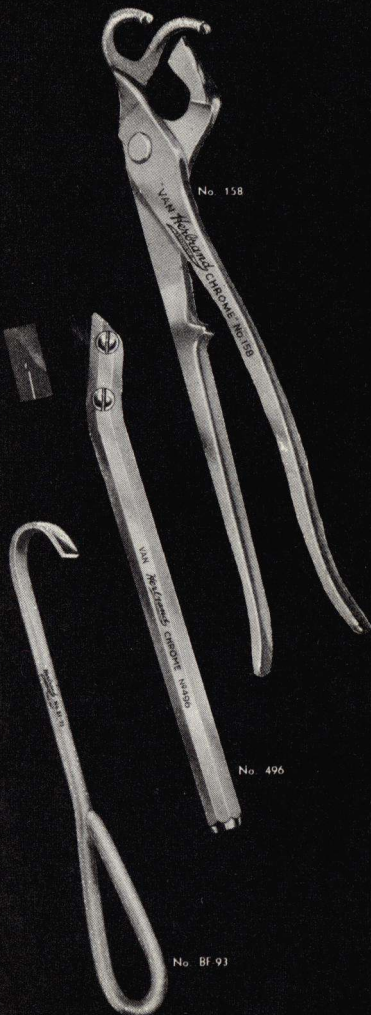
No. 496B, Replaceable Blade, each..... .50

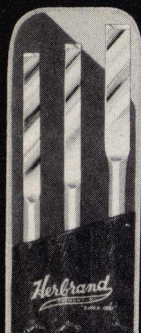
Ford Door Frame Spring Depressor No. BF-93

Depressing the spring clips, which hold the door frames on late model Fords, to remove frames, is a difficult and tedious job without this special Spring Depressor. It operates easily and efficiently and is a big time and labor saver that all body men will appreciate.

Satin nickel. Length 9". Weight 4 ozs.

LIST PRICE, each.....\$1.25





Set No. C-8



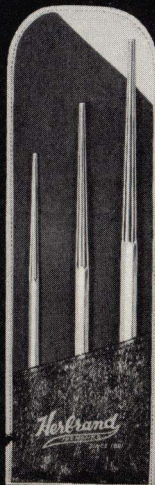
Nos.
425-7



Nos.
405 1/2-7



Nos. 463-5



Set No. C-9

Van-Chrome Body Cutting Chisels

Beveled Cutting Edge for Wood and Metal
Drop Forged from Chrome Alloy Steel

A new combination cutting Chisel with beveled offset blade so finely tempered that it cuts through wood and shears through metal without destroying the keen edge. Primarily designed for body work, it is a very practical chisel for shearing off bolts, rivet heads, nails and similar work. The handle is offset for knuckle clearance. Satin nickel plate, polished faces.

No.	Size Stock	Width of Blade	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
425	1 1/2	1 1/2	10	5 3	\$1.30
426	3/8	5/8	10	9	1.50
427	3/4	3/4	10	10 4	2.00

SET No. C-8, 1 each of the above. Weight 2 lbs.
LIST PRICE, in pocket leatherette roll.....\$5.20

Extra Long Flat Chisels

For Body Workers and General Usage
Drop Forged from Chrome Vanadium Steel

Wherever a long, straight reach is required these Extra Length Flat Cold Chisels will be found invaluable. Made in 16" and 18" lengths. Octagon handles. Individually heat treated with cutting edges precision hand ground. So finely tempered that they may be redressed with a file when necessary.

No.	Size Stock	Width of Blade	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
405 1/2	3/4	7/8	16	24	\$2.05
407	7/8	1	18	36	2.50

Long Aligning Punches

Extra Length—Gradual Taper
Drop Forged from Chrome Alloy Steel

The extra long, gradual taper on these new Aligning Punches make them the perfect tool for lining up holes on body and fender work, frames, motors and all precision assembling. Taper is graduated half the length of the tool.

No.	Size Stock	Dia-meter Point	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
463	3/8	3/16	12	3 12	\$1.50
464	1/2	7/32	14	7 8	1.70
465	5/8	1/4	16	12 12	1.95

SET No. C-9, 1 each of above. Weight 2 lb. 2 oz.
LIST PRICE, in leatherette roll.....\$5.65

For additional Chisels and Punches see pages 81-83

Knot Section Wire Wheel Brushes

For Removing Paint, Rust, Scale, Solder, Etc.

Heavy Duty Construction for Automotive Use

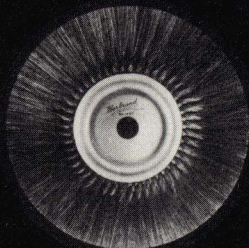
Each knot or tuft of twisted wire in these wheel sections is of uniform size and weight, equally spaced and securely mounted in the one-piece center—no welds or joints to fail under hard usage. This construction assures true balance, absolute safety and efficient operation on high speed equipment or portable tools. The precise coiling of the select quality thirty gauge wire produces an ideal brush for removing old paint, rust and solder from bodies preparatory to painting. Equally efficient for brake drums or shoes, and any other heavy duty cleaning. 2 to box.

No. 1147, 6" diam. $\frac{5}{8}$ " thick. Arbor hole $\frac{1}{2}$ ".

LIST PRICE, each, weight 1 lb. \$2.75

No. 1148, 8" diam. $\frac{5}{8}$ " thick. Arbor hole $\frac{1}{2}$ ".

LIST PRICE, each, weight $1\frac{1}{2}$ lbs. \$3.65



Nos. 1147 & 1148

Body Workers' Pry Bars

For Any Pulling, Prying and Aligning

Drop Forged from Chrome Vanadium Steel

A powerful leverage bar, with a multiplicity of uses, that will stand up under the heaviest work. The rolled head with the thin pry hook readily engages close fitting parts and the rounded heel supplies the powerful leverage. The long taper tang on the opposite end is very effective for lining up body and fender bolt holes and similar operations. Satin nickel with polished ends.

No. 485, Length 16". Size Stock $\frac{3}{8}$ ". Weight 1 lb.

LIST PRICE, each \$2.10

No. 484, Length 18". Size Stock $\frac{3}{4}$ " round.

Weight 1 lb. 8 ozs.

LIST PRICE, each \$2.90



Nos. 484
and 485

No. 656

Pyralin Tip Mallet 656

2" Shatterproof, Detachable Tips

A New Body Workers Hammer

The large faces of this resilient Double End Hammer are ideal for body and fender work. The tips are shockproof, very tough, genuine amber pyralin and will not mar finely finished surfaces. With sufficient weight for dinging out body and fender dents, this hammer also works very efficiently for changing tires, without damaging beads, and for working on parts that would be injured by hard, metal hammers. Perfectly balanced, the hickory handle is securely anchored to the nicked steel shank.

No. 656, Length 14". Weight 2 lbs. 4 ozs.

LIST PRICE, each \$3.75

No. 657, Extra Pyralin Tips.

LIST PRICE, each \$1.00

Refer to page 145 for smaller Pyralin Tip Hammers



No. BF-714 Combination File and Holder Consisting of No. BF-514 File and No. BF-614 Holder.

Van-Chrome Files and Holders

Milled, U-Type, "Shave Cut" Teeth

Self-Cleaning—No Packing, Loading or Clogging

Startling developments in these New Super-Efficiency Files are based on the milling cutter principle. Each tooth is individually milled with a land, which increases the strength and cutting qualities, and a "U-Shaped" groove which provides maximum clearance and produces curled metal shavings, eliminating all packing and loading so common with the conventional V-Cut file. "Van-Chrome" Files represent an investment in genuine efficiency and real economy never before available to mechanics. The keen, razor-like teeth speed up any metal planing work and they are more effective for filing soft metals like solder, lead or aluminum which clog or load ordinary files.

Flat and Shaped File Holders

New Holders of vastly improved design that increase the life and usefulness of the files and reduce costs by avoiding breakage and economizing time and labor. These strong, light weight, Wooden Holders give perfect control of the work and are far superior to the adjustable metal type. Special screw anchors at each end make it quick and easy to change file blades.

No. BF-714 Combination File and Holder

This inexpensive General Purpose File Holder and BF-514 File is the most practical and popular for body, fender and panel repair and general refinishing. It is a perfectly balanced, light weight, Wooden Filing Plane with the strength and life of a steel holder and none of its disadvantages. The curve has just enough bow to accurately control the point of filing and works expertly on any straight, crowned or contoured surface. The flat backed surface protects and cushions the teeth on the reverse side of the files. The large knuckle protecting knob and hand-fit grip handle combine to provide a fast and easy cutting metal plane action.

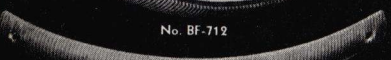
No. BF-712 Half-Circle Convex File and Holder

This New Combination will cut, draw or push and replaces four different conventional files. Primarily built to get into concave shapes on fenders, roofs, drip moldings, beads and any grooved places where flat files won't work.

(Continued on next page)



No. BF-712



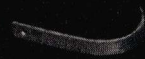
No. BF-512



No. BF-706



No. BF-506



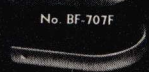
No. BF-507F



No. BF-707F



No. BF-707M



No. BF-507M



No. BF-507S



No. BF-707S

No. BF-706 Radius File and Holder

Here is the Combination Revel File and Holder that gets into corners and takes the grief out of very difficult filing. One side has an accurately machined radius to reach window frames against drip mouldings and smooth out small corners and ledges without damage to surrounding surfaces. Will often be found useful on smaller work where larger files do not permit the necessary stroke. This Radius File is 6" long, 1 1/8" wide at the center and 1/2" wide at each end. Teeth are milled on both sides doubling their life and service.

No. BF-707 F-M & S Files and Holders

Three Shaped Files—Flat—Concave—Convex

A Trio of "Shaped" Files that simplify the finishing of window reveals, around windshields, ledges, trim, fender beads, depressed panel edges, lamp ridges, offsets and many delicate contours. The holders are small in size and fashioned to fit the accurately shaped files with flat, concave or convex cutting surfaces.

Herbrand File and Holder Sets

Essential Combinations of the only correct Files and Holders that definitely modernize the mechanics body and fender repair equipment for speedier, more economical and efficient work on modern cars.

Set No. BF-500

Three Matched Holders with Shaped Files that have concave, convex and flat cutting surfaces which every mechanic must have for working around mouldings, reveals and confined or small spots. Weight 1 lb.

SET No. BF-500, comprising 3 Matched Holders Nos. BF-607; 3 Files Nos. BF-507F, BF-507M and BF-507S.

LIST PRICE, complete set.....\$ 9.30

Set No. BF-550

A special offer combination containing the popular General Service File Holder No. BF-614 and 6 No. BF-514 Flexible File Blades 14" long, with 112 individually milled teeth on each side. The File Holder is supplied gratis with this set. Weight 5 lbs.

LIST PRICE, complete set.....\$21.30

Set No. BF-600

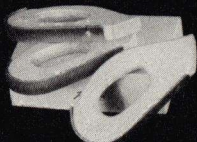
Here is the only complete set of Curved Tooth Files and Practical Holders that incorporates all the correct metal planing tools contoured and shaped for every requirement in body construction and repair work.

SET No. BF-600 contains 1 each of the Files and Holders listed in the table below. Weight 4 lbs.

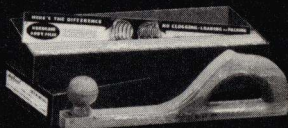
LIST PRICE, complete set.....\$24.55



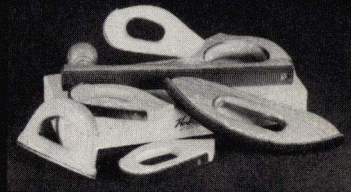
Enlarged views showing the individually milled, U-type, Extra Deep Teeth and how they avoid clogging or loading by producing ribbon-like shavings which spiral off the blades, always maintaining sharp, fast cutting teeth.



Set No. BF-500



Set No. BF-550



Set No. BF-600

PRICE LIST OF FILE BLADES AND HOLDERS

FILE BLADES					INDIVIDUAL HOLDERS			HOLDERS WITH BLADES ATTACHED		
Number	Description	Standard Package	Weight Per Doz. Lbs. Ozs.	List Price Each	Number	Weight Per Doz. Lbs. Ozs.	List Price Each	Number	Weight Per Doz. Lbs. Ozs.	List Price Each
*BF-514	14" Flexible U-Type Teeth	1/2 Doz.	8 8	\$3.55	BF-614	9 ..	\$2.50	BF-714	18 ..	\$6.05
BF-512	12" Half Circle Shell	1/2 Doz.	5 4	3.00	BF-612	6 ..	1.65	BF-712	11 4	4.65
BF-507F	7" Flat Revel	1 Doz.	1 8	2.50	BF-607	2 4	.60	BF-707F	3 12	3.10
BF-507M	7" Moulding Revel (concave)	1 Doz.	1 8	2.50	BF-607	2 4	.60	BF-707M	3 12	3.10
BF-507S	7" Shell Revel (convex)	1 Doz.	1 8	2.50	BF-607	2 4	.60	BF-707S	3 12	3.10
BF-506	6" Radius Blade	1 Doz.	3 ..	3.30	BF-606	3 ..	1.25	BF-706	6 ..	4.55

*Packed in individual semi-absorbent protective envelopes. Fits all types of 14" holders. Holders individually boxed. Combination Holders and Files one in a carton.

Van-Chrome Body and Fender Tool Sets

Set No. BF-100

Minimum Assortment of 8 Essential Tools

This set contains the minimum requirements of the essential body workers tools. Includes one each of 3 Perfectly Balanced Hammers: Nos. BF-2, BF-4 and BF-8; 2 Anvil Blocks Nos. BF-52 and BF-54; General Purpose Spoon BF-33; File Holder BF-614; 14" Flexible File No. BF-514. Total of 8 pieces. Weight of tools 14 lbs. Weight of specially constructed metal box 17 lbs.

LIST PRICE, complete in fibre box.....\$35.10

LIST PRICE, complete in metal box..... 42.10



Set No. BF-100

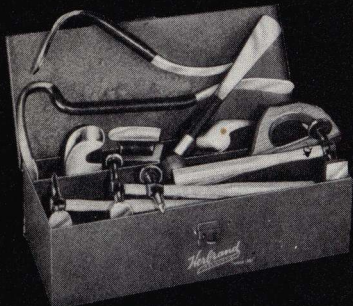
Set No. BF-101

Balanced Assortment of 12 Important Tools

The tools in this careful selection combine to give the craftsman the well balanced important body and fender equipment required to handle the most frequent jobs encountered daily. Contains one each of four Perfectly Balanced Combination Hammers: Nos. BF-2, BF-5, BF-7, BF-8; 3 Important Anvil Blocks Nos. BF-51, BF-52 and BF-54; 3 Modern Design Bumping and Pry Spoons, Nos. BF-31, BF-33, BF-34; File Holder BF-614 and 14" Flexible File No. BF-514. Total of 12 pieces. Weight, tools only 24 lbs. Weight of special designed metal box 17 lbs.

LIST PRICE, complete in fibre box.....\$57.80

LIST PRICE, complete in metal box..... 64.80



Set No. BF-101

No. BF-102 Master Body Worker's Set

Complete Set of 35 Necessary Matched Body and Fender Tools—Files and Holders

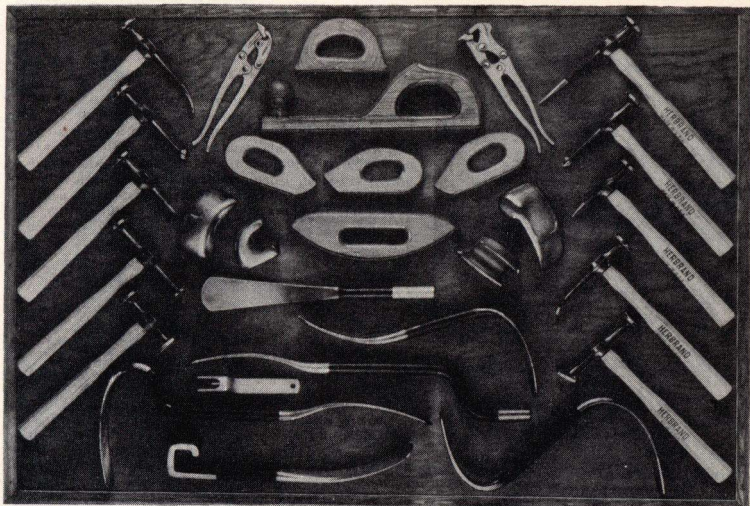
The most complete set of Modern, Matched, Perfectly Balanced Body and Fender Tools that are the correct contour, size, shape and weight to function efficiently for any body and fender service. The master mechanic will find this set a profitable investment because it will do the most difficult jobs in the repair shop with maximum ease and efficiency.

Contains 10 Perfectly Balanced, Double End Hammers, Nos. BF-1 to BF-10 inclusive; 4 Streamlined Anvil Blocks, Nos. BF-51, BF-52, BF-53 and BF-54; 6 All-Purpose Bumping and Pry Spoons, Nos. BF-31 to BF-36 inclusive; Drip Moulding Plier BF-80; Fender Bead Plier BF-81; Escutcheon Plate Tool BF-91; 6 Assorted Files and 6 Holders as listed on pages 42 and 43. The list price shown below does not include the metal tool box illustrated. The set is packed in a wooden box. Metal box illustrated is the Magic Chest shown on page 26, available at \$16.00 list price, additional. Total of 35 pieces. Wt. 44 lbs.

LIST PRICE, complete in wooden box.....\$140.00



Set No. BF-102



Van-Chrome Body and Fender Tool Display BF-135

A Sales Maker for Jobbers — A Service Salesman for Repair Shops

Modern body and fender repair work has been awkward, difficult, unsatisfactory and costly because of inadequacy and lack of proper tools. Here is a two-purpose board—set up in the jobbers sales room it is

convincing evidence of his ability to supply the latest in Body Workers Tools—displayed in service station it qualifies their body and fender service as the highest type.

Tools Mounted on Display Board No. BF-135

Hammers: 10 Perfectly Balanced Hammers; Nos. BF-1 to 10, described on pages 30 to 33.

Spoons: 6 Hand Forged, Latest Type Pry, Bumping, Driving and General Purpose Spoons; Nos. BF-31 to BF-36 inclusive, see pages 34 and 35.

Anvil Dolly Blocks: 4 Newly Designed, Drop Forged (no castings) Miniature Anvils, sized and shaped for the peculiar formations on modern cars; Nos. BF-51 to 54 shown on page 36.

Files and Holders: Newly Patented Files, individually milled teeth, no loading, clogging or packing

—faster cutting. Wooden Holders shaped and balanced for perfect control of work and elimination of file breakage. 6 Holders with File Blades attached: Nos. BF-714, 712, 707F, 707M, 707S, 706. Listed on pages 42 and 43.

Pliers: Nos. BF-80 Drip Rail and BF-81 Fender Bead Plier. Also BF-91 Escutcheon Plate Tool.

Total of 35 pieces. Size of board 34" x 48". Angle Iron floor brackets supplied when specified.

Weight 50 lbs. Board gratis.

LIST PRICE, complete.....\$140.00

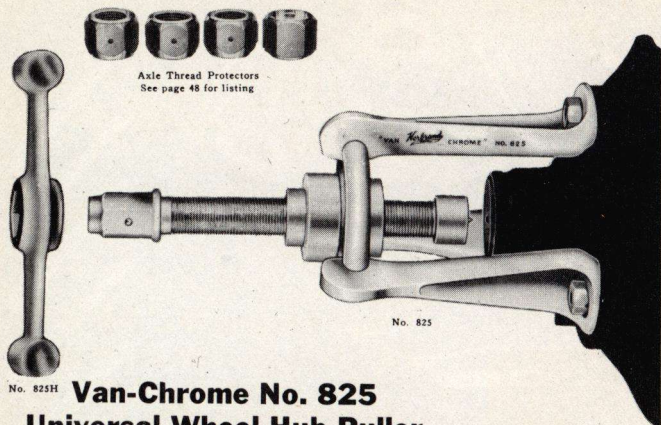
Tools Mounted on the Complete Display BF-136

In addition to the tools illustrated and listed above, the No. BF-136 Display includes the latest items necessary for complete Body and Fender service including the late cars: Nos. BF-11 Lightweight Bumping Hammer; BF-37 Paneling Spoon; BF-38 Caulking Spoon; 822 Hinge Pin Pusher; BF-92 Broken Glass Remover; No. 158 Fender Bolt Plier;

496 Panel Cutter; BF-93 Door Spring Depressor; 656 Pyralin Mallet. These tools are described on pages 30 to 41.

No. BF-136. Total of 44 pieces. Weight 65 lbs. Board gratis.

LIST PRICE, complete.....\$180.00



No. 825H

Van-Chrome No. 825 Universal Wheel Hub Puller

Capacity for Most Cars—Fits All Bolt Circles

Solid Drop Forged Hub—Drop Forged Chrome Alloy Pulling Arms

The sliding arms are readily adjustable and quickly adapted to any hub regardless of the number of wheel studs used and where the bolt circle does not exceed $7\frac{1}{2}$ ". Exerts a direct and tremendous pull. Only Herbrand provides the Universal Wheel Puller with the sliding bearing and the floating cap.

No. 825, Wheel Hub Puller only, not including the handle. Expansion $7\frac{1}{2}$ ". Weight 9 lbs. 10 ozs. Satin nickel.

LIST PRICE, Puller only, each.....\$15.00

No. 825C, Wheel Hub Puller No. 825 and Puller Handle No. 825H. Weight 11 lbs. 10 ozs. Satin nickel.

LIST PRICE, Complete.....\$16.60

No. 825-5, Drop Forged Alloy Steel Puller Arms. Satin nickel.

LIST PRICE, each.....\$ 2.10

Handle No. 825H for Hub Pullers

Notched for Lock-On Feature

Drop Forged and Heat Treated

For use with Pullers 825 and 825F. Fits any puller with a $1\frac{1}{8}$ " hex head. Satin nickel. Length 8". Weight 2 lbs.

LIST PRICE, each.....\$ 1.60

Refer to page 122 for Special Ford V8 Wheel Puller Adaptor

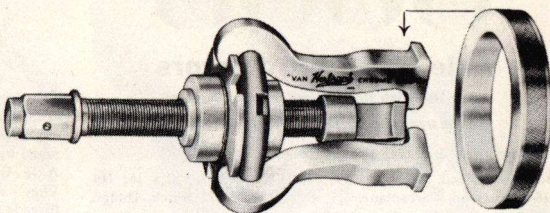
The revolutionary features embodied in this Puller give the highest degree of accuracy, tremendous power and range, a straight pull that will not bend or distort wheel lugs, a sliding bearing in which the driving screw rides and a floating cap on the screw end. The sturdy alloy steel screw works in a sliding bearing so that when it is necessary to bump the end of the screw it positively cannot injure the threads.

Another unique feature, not found on other pullers, is the floating cap on the screw end which centers on the axle and avoids injury to axle or screw.

These distinctive Herbrand features improve the tool so remarkably that it is immediately obvious to the mechanic that no injury can be transmitted to any of the inner parts of the wheel, axle or differential. The simplest puller made, yet covering the widest range of service without the use of trick attachments.



No. 825H



Van-Chrome No. 825F Ford Hub and Wheel Puller

For All Ford Models from 1928

Solid Drop Forged Hub—Drop Forged Chrome Alloy Pulling Arms

Tough, stubborn hubs on all V-8's and models A and B quickly respond to the direct, powerful pull of this specially designed Ford Hub and Wheel Puller. The drop forged hub, the drop forged chrome alloy pulling arms and the chrome alloy forcing screw are all precision machined and carefully heat treated.

No. 825F, Ford Puller complete as illustrated, but not including the 825H Handle. Finished in satin nickel. Weight 10 lbs. 8 ozs.

LIST PRICE, complete.....\$17.50

No. 825G, Ford Puller complete as shown including the No. 825H Handle. Weight 12 lbs. 8 ozs.

LIST PRICE, complete.....\$19.10

No. 825V, Ford Assembly comprising 3 No. 825-6 Pulling Arms, No. 825-7 Retainer Lock Ring and No. 825-8 Automatic Arm Spacer and Spring for use on the No. 825 Universal Puller. With these parts the Standard Puller No. 825 is easily changed in 60 seconds to a complete Ford Puller.

LIST PRICE, complete.....\$ 8.50

No. 825-6, Special Ford Pulling Arms which are interchangeable with the Stud Bolt Pulling Arms of No. 825 shown on page 46.

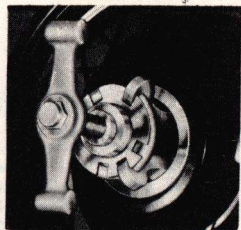
LIST PRICE, each.....\$ 2.10

No. 825-7, Retainer Lock Ring for use with Ford Pulling Arms.

LIST PRICE, each.....\$ 1.70

No. 825-8, Automatic Arm Spacer and Spring, which fits on top of the Hub of the No. 825 Puller, for Ford work.

LIST PRICE, complete.....\$.60



The three drop forged Chrome Alloy pulling arms are shaped to accurately fit and positively engage the groove in the hub. The retainer ring slides over the arms and locks them into the hub groove while pressure is being exerted on the drive screw preventing all possibility of slipping, or popping off the work. The alloy steel drive screw works in a shock proof sliding bearing and the engaging end is equipped with a floating cap that centers readily on the shaft and eliminates damage to parts. The automatic arm spacer disc mounted on top of the drop forged hub of the puller exactly spaces and holds the arms in position while the tool is being applied to the work. It has six positions of adjustment.



Axle Thread Protectors

For Use with No. 825 and Similar Pullers

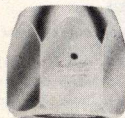
Made from Chrome Alloy Steel—Nickel Plated

Finished in satin nickel, polished heads.

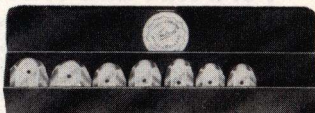
No. 825-10 Ford, $\frac{3}{8}$ " x 18; No. 825-11 Chevrolet, $\frac{3}{4}$ " x 16; No. 825-12 Hudson, Terraplane, $\frac{3}{4}$ " x 20; No. 825-13 Buick, Dodge, $\frac{7}{8}$ " x 14 thread. Weight each 3 ozs.

LIST PRICE, No. 825-15 complete set of 4.....\$2.50

LIST PRICE, each individual size......65



Available in the
10 necessary sizes



Set No. KO-10



Van-Chrome Knock-Out Wheel Pullers

Accurate and Tough

Nickel Plated and Polished Chrome Alloy Steel

Catalog Number	Size Opening	Threads to Inch	Height	Weight Per Doz. Lbs. Ozs.	List Price Each
*KO-20	$\frac{5}{8}$	18 SAE	$1\frac{5}{8}$	5 4	\$.90
KO-24	$\frac{3}{4}$	16 SAE	$1\frac{3}{4}$	5 7	1.00
†KO-24T	$\frac{3}{4}$	20 USF	2	6 3	1.00
‡KO-26	$1\frac{1}{2}$	16 SAE	$3\frac{1}{2}$	11 10	1.10
KO-28	$\frac{7}{8}$	14 SAE	$1\frac{3}{4}$	5 4	1.10
†KO-28H	$\frac{7}{8}$	18 USF	$1\frac{3}{4}$	6 12	1.10
KO-32	1	14 SAE	$1\frac{3}{4}$	7 2	1.20
KO-36	$1\frac{1}{8}$	12 SAE	$1\frac{3}{4}$	9 6	1.50
KO-40	$1\frac{1}{4}$	7 USS	$1\frac{3}{4}$	7 8	1.90
‡KO-40T	$1\frac{1}{4}$	12 SAE	$1\frac{3}{4}$	8 1	1.90

*For all Ford Models

†Terraplane

‡Chevrolet late '32

‡Chevrolet Truck including '35 Models

†Hudson

SET No. KO-10 containing one each of the above ten Knock-Outs. Packed in a durable metal box. Weight 7 lbs. 4 ozs.

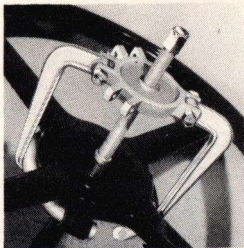
LIST PRICE, complete in metal box.....\$13.40

When pulling hubs, axle threads are often damaged and time and expense of rethreading is eliminated by the use of these simple Axle Guards or Thrust Nuts. They absolutely protect the threads while using pullers when pressure is applied to the axle end. They work equally well when pulling gears.

There has long been a waiting demand for a Knock-Out Wheel Puller of real quality at a moderate price. "Van-Chrome" Knock-Outs are dependable because they are accurately machined from tough Chrome Alloy Steel and heat treated for strength and shock resistance. They screw up snug to the end of the axle shaft and will stand the hardest hammer blows without injury to threads or shafts. The heads will not mushroom nor split and they are drilled with breather holes to prevent the formation of grease pads. Finished in satin nickel with polished heads.

No. KO-10 Knock-Out Wheel Puller Set

The set illustrated above carries the popular sizes to service practically all makes of cars and light trucks. These Knock-Outs are simple and efficient to use and offer the quickest and most convenient method of jarring loose the tightest wheels without damage to axle or threads.



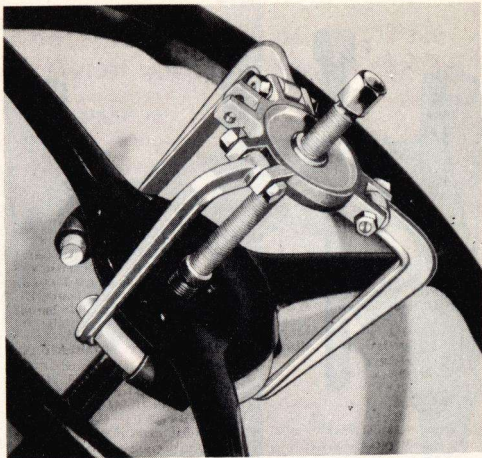
Pulling Four Spoke Wheel

Due to the construction of most steering wheels it is impossible to pull them with an ordinary puller. The Herbrand Universal Puller easily adjusts to fit any type steering wheel on all passenger cars and most trucks whether they have three or four spokes.

Servicing steering worms, bearings and other parts of the steering assembly and replacement of cracked wheels are frequently necessary. This Puller was specifically designed to remove all types of steering wheels, including 1939 models, with a minimum of effort and without damage to any of the assembly.

The majority of late model cars have three spoke steering wheels and require a three jaw puller. Older model cars with four spoke wheels require a two jaw puller. The No. 835 Universal Steering Wheel Puller is equipped with three adjustable pulling arms on a drop forged circular hub and an extra fourth position for converting it into a two arm puller. The arms are easily removed and placed in any position to handle any type of steering wheel.

A special large size steel ring with $5\frac{1}{8}$ " inside diameter is included as standard equipment for service on late model cars where the shift is on the steering column; or mechanics can obtain this extra ring for use with the original puller No. 835.



Pulling Three Spoke Wheel

Van-Chrome Steering Wheel Puller No. 835 P

2 Rings—Universal for All Steering Wheels

Adjustable Pulling Arms

Like all important Herbrand tools this Puller is drop forged from select stress proof steel and expertly heat treated. The pulling arms are adjustable to any position on the hub for a straight, positive pull on either three or four spoke wheels.

Two steel rings, against which the actual pulling is done, are supplied as standard equipment; the small ring for cars with floor gearshift; the large ring for cars with shift lever on the steering column. These rings have three rubber cushions which protect the wheel from marring, scratching and cracking. A revolving nipple on the end of the forcing screw eliminates any danger of damaging the shaft. Adaptor No. 835A is available for cars having the horn contact on the steering column center.

No. 835P, Puller complete with two rings. Length of arms $5\frac{1}{4}$ ". Length of forcing screw $7\frac{3}{4}$ ". Weight 3 lbs. 13 ozs. Finished in satin nickel. Individually boxed.

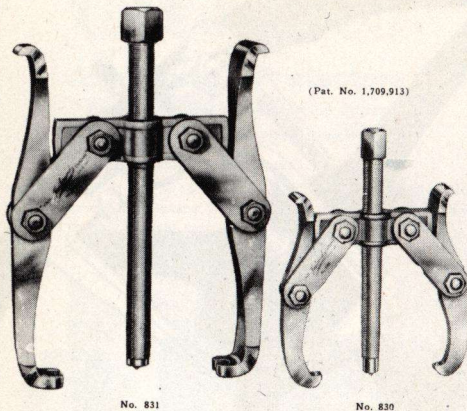
LIST PRICE, each.....\$12.00

No. 835R, $5\frac{1}{8}$ " diameter Large Ring for mechanics having one-
ring puller No. 835. Weight 13 ozs.

LIST PRICE, each.....\$ 1.25

No. 835A, Adaptor for cars with center column horn contact.

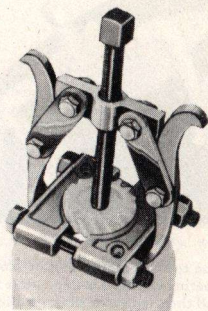
LIST PRICE, each.....\$.40



(Pat. No. 1,709,913)

No. 831

No. 830



Gear Pullers 830 or 831 used with Pulling Attachments 872 or 873

Van-Chrome Reversible Improved Gear Pullers

Non-Slipping Automatic Grips

Drop Forged from Chrome Molybdenum Steel

Available in the two sizes required to cover all types of work. Finished in triple satin nickel with ends brightly polished.

No. 830 Gear Puller has wide, thin hooks on one end, narrow, thick hooks on the other end; is particularly adapted to pulling generator gears, ball races, timing gears and small pinions.

Length of jaws under cross arm $3\frac{1}{2}$ ". Spread of jaws 0" to 6". Size of screw $\frac{1}{2}$ " diameter by 6" long. Weight 1 lb. 10 ozs.

LIST PRICE, each.....\$9.10

No. 831 Gear Puller has reversible pulling arms, one end with wide thin hooks for accessibility to gears in close quarters, the other end has slotted hooks for pulling gears which are tapped for cap screws. Will handle large gears, pinions and ball races and is an all purpose tool on machinery and automotive work.

Length of jaws under cross arm $5\frac{1}{2}$ ". Spread of jaws 8". Size of screw $\frac{5}{8}$ " diameter by 9" long. Weight 3 lbs. 12 ozs.

LIST PRICE, each.....\$18.00

A Gear Puller with automatic, non-slip grip has long been sought by mechanics. The patented, positive gripping jaws absolutely prevent slipping because the harder the pull the tighter the grip. Strong, thin jaws permit working in close quarters and no adjustments or extra equipment are required to hold them firmly in place. Light in weight yet the strongest gear pullers made, the double end jaws adapt them to a much wider range of work without the necessity of buying extra jaws.

"Van-Chrome" Automatic Gear Pullers combine all the improved and outstanding features of design, strength and dependability. They will save time and labor in every well equipped repair shop.

Every part is drop forged from select Chrome Molybdenum Steel and carefully heat treated to a definite standard of strength to insure the utmost endurance under the terrific strains to which gear pullers are subjected.

These Pullers are ideal for use with Gear Puller Attachments and Bearing Separators—see pages 52 and 53

Herbrand
EFFECTIVE EQUIPMENT

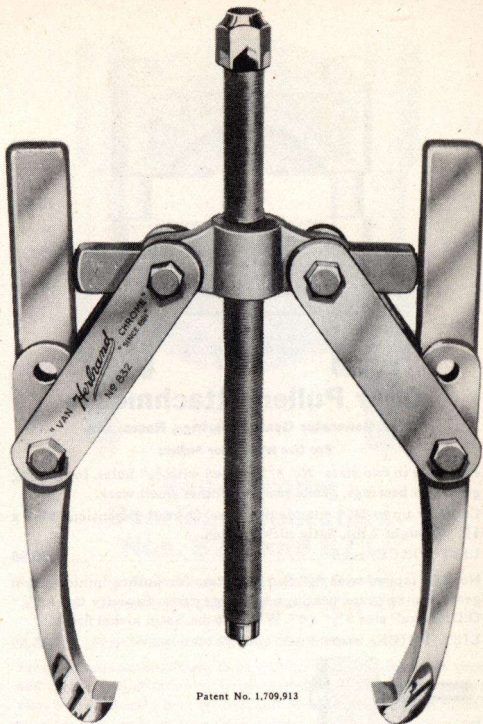


Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Time Payment Plan.

Mechanics frequently are faced with the problem of pulling large gears, pulleys, wheels, bearings and other parts on trucks, tractors and heavy machinery for which no special pullers have been available. Here is a Heavy Duty Puller that will handle work that would tax the capacity of a 20-ton press. The patented jaws have a gripping ability that definitely avoids slipping under the hardest pull because the jaws grip more positively as the pull is increased.

The 12" capacity of the reversible jaws, which have 2 points of adjustment for length, adapt it to a wide variety of pulling jobs, both large and small. Extra thin, curved 12" hook jaws are designed to reach parts where there is a minimum of clearance and the sturdy 13" forcing screw applies the tremendous pulling power demanded in heavy duty work.

The "Van-Chrome" Heavy Duty Puller eliminates the "hammer and chisel" methods frequently used, saving hours of tedious labor, delays and costly damage to expensive parts. Every garage, machine shop, implement dealer and fleet operator should have this all-around Heavy Duty Puller.



Patent No. 1,709,913

Van-Chrome Heavy Duty Gear Puller No. 832

For Trucks, Tractors and Heavy Equipment

Drop Forged from Chrome Molybdenum Steel

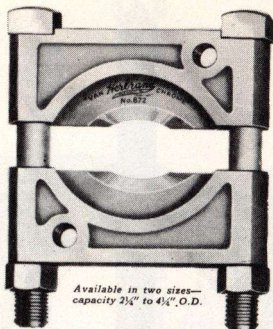
The range, capacity and pulling power of this Heavy Duty Puller makes it a universal tool for all shops working on cars, trucks, tractors and heavy equipment.

Drop forged from select Chrome Molybdenum Steel and heat treated to withstand the stress and strain of the grueling work for which it is built. Finished in satin nickel plate with polished ends.

Capacity 12". Size of screw $\frac{3}{4}$ " x 13". Weight 8 lbs. 7 oz. Individually boxed.

LIST PRICE, each.....\$27.50

Also very efficient for gears and bearings when used with Gear Pulling Attachments shown on pages 52 and 53



Available in two sizes—
capacity 2¼" to 4¼", O.D.

Gear Puller Attachments

For Generator Gears, Bearings, Races, Etc.

For Use With Gear Pullers

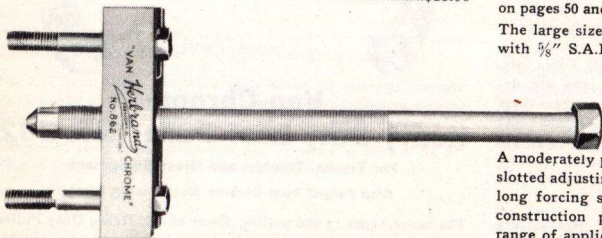
Available in two sizes: No. 872, tapped with ⅜" holes, for pulling generator bearings, gears, races and other small work.

Capacity up to 2¼" outside diameter. Overall dimensions 3½" x 4½". Weight 2 lbs. Satin nickel finish.

LIST PRICE, each.....\$5.80

No. 873, tapped with ⅝" S.A.E. holes, for pulling pinions, cam gears, timing gears, bearings and large parts. Capacity up to 4¼" O.D. Overall size 8¾" x 6". Weight 6 lbs. Satin nickel finish.

LIST PRICE, each.....\$15.00



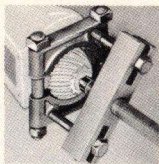
Van-Chrome Special Puller 862

For Timing Gears, Fan Pulleys, Crank Shaft Gears,
Balancers, Cam Gears and Inside Pulling Jobs

Chrome Molybdenum Steel

The slotted block is equipped with two ⅜" cap screws which can be replaced with other sizes. Length 11½". Weight 2 lbs.

LIST PRICE, complete.....\$5.60



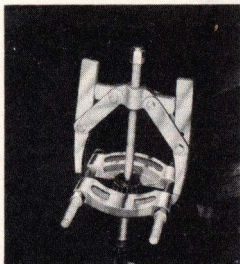
Attachment No. 872 used with Puller No. 862

Essential for pulling generator gears, bearings, bearing cones, ball races and similar parts. Gears and bearings are often placed so close to the housing or other obstructions that puller jaws will not stay on. The knife edges are flush on one side and get behind the work making it possible to pull the most confined part readily. No. 872 Attachment is drilled and tapped diagonally to take the cap screws of No. 862 puller illustrated below, with ⅜" holes. These combinations are unbeatable for close, confined work. They are also used to advantage with Herbrand gear pullers shown on pages 50 and 51.

The large size No. 873 is tapped with ⅝" S.A.E. holes.

A moderately priced Puller with slotted adjusting block and extra long forcing screw. The simple construction provides a broad range of application that adapts it to many complicated jobs.

Chevrolet fan pulleys come easy and without removing the radiator, because the forcing screw is long enough to reach through the crank hole; also useful for pulling Buick crankshaft gears, impulse neutralizers on all Chrysler built cars and for all timing gears tapped for cap screws.

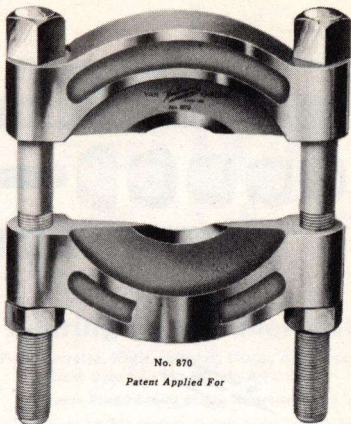


Separating and Pulling Bearings

With this special tool double bearings on axle shafts may be removed without damaging or completely destroying either one of them. Herbrand engineers, working with mechanics, perfected the tool which handles this most difficult job efficiently and pays for itself in bearings saved on the first few jobs.

Built to separate the double Timken bearings on axle shafts of Chrysler, Dodge, Plymouth, DeSoto, Nash, Hupmobile, and all other cars where the bearings are set tightly together. "Van-Chrome" Bearing Separators perform this tedious and difficult job easily and quickly without loss of time and positively without damage to the expensive bearings.

The knife-like edges are ground to a fine taper and are wedged between the bearings when the forcing screws are turned. This quickly separates the bearings without damage. The bearings are then removed from the shaft with an arbor press or Herbrand Gear Pullers listed on pages 50 and 51. Heat treated to give long service and retain the sharp separator edges.



No. 870

Patent Applied For

Van-Chrome Bearing Separators Nos. 870 and 871

For Separating and Removing Bearings
Capacity Outside Diameters $4\frac{1}{2}$ " to $5\frac{3}{4}$ "

Drop Forged from Chrome Molybdenum Steel

Service shops cannot afford to be without this tool due to its time and money saving features. Drop forged from Chrome Molybdenum Steel, expertly heat treated and plated in triple satin nickel with contrasting highly polished surfaces. Available in two sizes.

No. 870 Bearing Separator is particularly adapted to the separation and removal of bearings on axle shafts of Chrysler, Dodge, Plymouth, DeSoto, Nash, Hupmobile, Reo, and other cars using Timken bearings up to $4\frac{1}{2}$ " outside diameter.

Capacity, bearings up to $4\frac{1}{2}$ " outside diameter. Overall dimensions 8" x 6". Weight 5 lbs. 4 ozs.

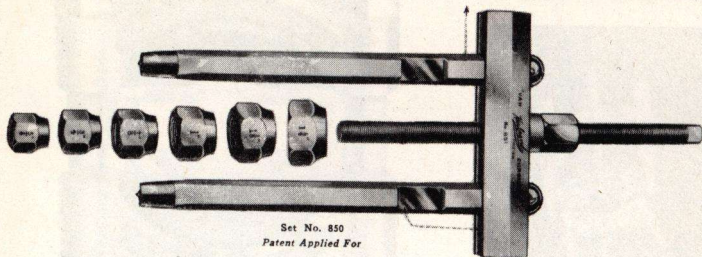
LIST PRICE, each.....\$15.40

No. 871 Bearing Separator is adapted to service large bearings especially on trucks, buses and tractors. This tool removes these costly bearings without damage.

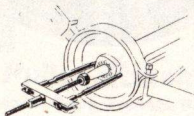
Capacity, bearings up to $5\frac{3}{4}$ " outside diameter. Overall dimensions 10" x $7\frac{1}{2}$ ". Weight 7 lbs. 4 ozs.

LIST PRICE, each.....\$20.40

To remove bearings safely use Herbrand Gear Pullers attached to Bearing Separators



Set No. 850
Patent Applied For



Pulling Axle Shaft

Van-Chrome Heavy Duty Puller No. 851

For Axles, Shafts, Gears, Bearings, Sprockets, Etc.

Adjustable Length and Width

Here is the special tool that adapts itself to almost every variety of pulling service; quickly and efficiently handling those difficult jobs which formerly consumed hours of time, labor and grief.

Puller and Threaded Adaptors are made from select Stress Resisting Steel, machined to exacting tolerances, and electrically heat treated for grueling service. Handsomely finished in rust proof dull satin and contrasting polished nickel. Puller and Adaptors can be purchased individually or in a complete set.

Adaptors for No. 851 Puller

Catalog Number	Size Adaptor Openings	Threads to Inch	Weight Each Ozs.	List Price Each
852	$\frac{3}{8}$	18 SAE	$3\frac{1}{4}$	\$.65
853	$\frac{3}{4}$	16 SAE	5	.65
854	$\frac{7}{8}$	14 SAE	5	.80
855	1	14 SAE	6	.80
856	$1\frac{1}{8}$	12 SAE	7	1.00
857	$1\frac{1}{4}$	12 SAE	$7\frac{1}{2}$	1.00

No. 851 Heavy Duty Puller. Length 12". Weight 6 lbs. 3 ozs.

LIST PRICE, each.....\$13.30

SET No. 850 comprising No. 851 Puller and the six Threaded Adaptors listed above. Weight 8 lbs.

LIST PRICE, complete in fibre box.....\$18.20

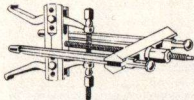
A tested Heavy Duty Puller, almost universal in scope, of such revolutionary principle that it will quickly pay for itself in any shop. Designed to do a great many difficult jobs and replace a large number of costly special tools. Permits a wide variety of adjustments by using Detachable Threaded Adaptors for pulling axle shafts, cam shafts, drive shafts, transmission shafts, gears, bearings, sprockets, ball races and other parts from most cars and trucks.

It has two adjustments for length and the Chrome Vanadium pulling block is slotted to permit setting the jaws at any desired width. The six Threaded Adaptors, $\frac{3}{8}$ " to $1\frac{1}{4}$ " inclusive, furnished with Set No. 850 cover the general field of use. Additional Threaded Adaptor sizes, for special jobs, are available and can be purchased individually.

The following combinations of Pullers and Attachments are vitally important to cover the complete scope of pulling work. They all work in conjunction with the Heavy Duty Puller No. 851:

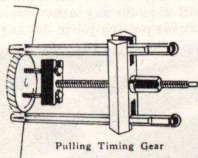
860 Bearing Race Puller page 55;
861 Timing Gear Puller page 55;
867A Pilot Bearing Puller page 56;
868 Bushing Extractors page 56.

Herbrand
INCORPORATED



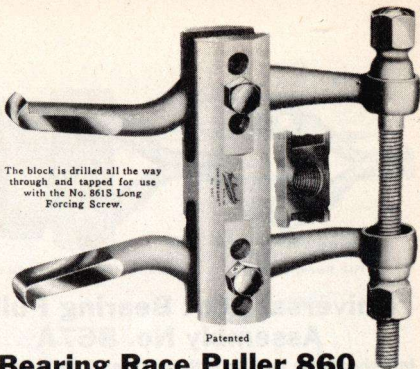
In Position to Pull Bearing Race

Used in conjunction with the Herbrand Heavy Duty Puller this special tool performs with ease one of the most difficult service jobs encountered today. With jaws curved to conform to the contour of the Timken race it will pull badly worn races without scoring the inside of the axle housing. Bearings in good condition may also be removed without damage when it is necessary to replace oil retainers, etc. The jaws are adjustable, covering a wide range with the capacity for either inside or outside pulling. A special engineering feature permits the jaws to take a positive, non-slip working grip.



Pulling Timing Gear

An important attachment for the Heavy Duty Puller which is essential for pulling timing gears, cam gears, fan pulleys, balancers, Hudson-Essex main bearings and many other jobs. Pulls Chevrolet fan pulleys with harmonic balancers, Buick crankshaft gears and all others which are tapped for cap screws. Untapped gears may be tapped to the proper size and removed easily with this tool.



The block is drilled all the way through and tapped for use with the No. 861S Long Forcing Screw.

Patented

Bearing Race Puller 860

For Chevrolet, Nash, Hudson, Hupp, All Chrysler Built Cars and Practically All Others

Chrome Molybdenum Steel—Reversible Jaws

Designed with reversible jaws so it can be applied to both inside and outside pulling work. The slotted block is drilled and tapped all the way through so that the 11½" Forcing Screw No. 861S, listed at the bottom of this page, makes this a complete tool.

A necessary time and labor saver for all shops working on Hudson, Hupmobile, Chevrolet, Nash, Plymouth, Dodge, Chrysler, DeSoto and other cars. Satin nicked and polished.

No. 860. Length 7½". Inside pulling range 1" to 7". Wt. 3 lbs. LIST PRICE, each\$15.00

No. 860½. Extra Long Heavy Duty Jaws to pull felt grease retainers and ball races on large trucks and tractors. It also pulls races and bearings from rear axle housings on all cars, trucks and tractors; and Timken bearing cups from rear axle housing on all model Fords, Chrysler built cars, Nash, Packard, Studebaker, Reo, International trucks, and many others. Inside pulling range 1" to 8½". Length 9¼". Weight 1 lb. 6 ozs.

LIST PRICE, per pair\$ 7.50



Van-Chrome Timing Gear Puller No. 861

For Timing Gears, Fan Pulleys, Balancers, Cam Gears, Etc.

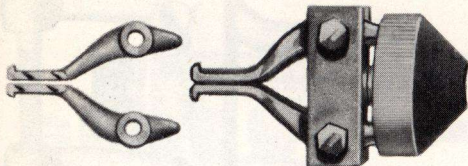
Chrome Molybdenum Steel

Equipped with two ⅜" U.S.S. heat treated cap screws which may be removed and replaced with other sizes if necessary. The block is drilled and tapped all the way through the center for use with the No. 861S Forcing Screw. Satin nicked.

No. 861. Length 4½". Weight 1 lb. 3 ozs. LIST PRICE, each\$ 4.15

No. 861S Forcing Screw. Length 11½". Used with Nos. 860 and 861. LIST PRICE, each\$ 1.60

These Important Attachments Function Perfectly with Heavy Duty Puller 851 or All Purpose Slide Hammer 866



No. 867J Pilot Bearing Puller Jaws

No. 867A Pilot Bearing Puller Assembly

Universal Pilot Bearing Puller Assembly No. 867A

**Interchangeable For Use with the Heavy Duty Puller No. 851
and the All-Purpose Puller No. 866**

Chrome Molybdenum Steel

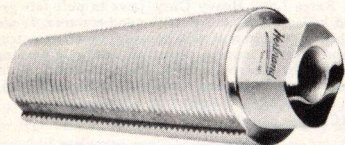
No. 867A. Pilot Bearing Puller Assembly consisting of Special Pilot Bearing Puller Jaws, 2-Way Pulling Block and Adjusting Reversible Cone for use with No. 851 or 866 Puller.

Length of Jaws $3\frac{1}{4}$ ". Inside pulling capacity $\frac{1}{2}$ " to 2", outside pulling range with legs reversed 1" to $4\frac{1}{4}$ ".

LIST PRICE, complete\$6.60

No. 867J. Pilot Bearing Puller Jaws only.

LIST PRICE, per pair 3.00



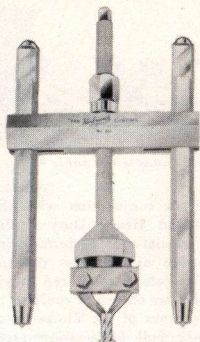
Van-Chrome Bushing Extractors

For Blind Bushings That Can't Be Driven

Buttress Thread—Won't Strip—Pulls on Square Shoulders

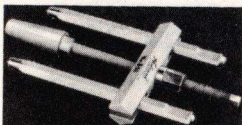
The tapered shank has special buttress threads, which pull on square shoulders that can't strip, and is fluted for the passage of chips. The $\frac{5}{8}$ " S.A.E. threaded hole in the end of the extractor engages the No. 866 Slide Hammer or the No. 851 Puller for easy removal of any bushing. Made in 4 sizes.

Number	Capacity	Weight Lbs.	Doz. Ozs.	List Price Each
575	$\frac{1}{2}$ to $1\frac{1}{2}$	6	..	\$3.30
576	1 to $1\frac{3}{4}$	14	4	4.15
577	$1\frac{3}{8}$ to $1\frac{1}{2}$	21	..	5.00
578	$1\frac{1}{2}$ to $2\frac{3}{4}$	28	..	5.80



No. 851 Heavy Duty Puller with Pilot Bearing Pulling Assembly No. 867A Attached.

The pilot bearing is set in the flywheel in a blind hole and there is no way to drive it out from the other side. This tool is built to enter the hole in the smallest pilot bearing and will expand to take the larger bearings found on International and other trucks. It is absolutely essential for pulling pilot bearings because this is the only manner in which they can be reached and it will also do any other inside or outside pulling job in its range.



Bushing Extractor in use with No. 851 Puller

Here's The New Herbrand Tool that cuts its own threads and gets those blind bushings up against housings and other impossible places where they can't be driven out. For motors, pumps, tractors, cars and all kinds of machinery. Saves dismantling and costly delays. Screws in with a wrench and when powered by 866 Slide Hammer or 851 Heavy Duty Puller easily lifts any bushing.

The Pullers for use with these Attachments are shown on pages 54 and 58

A combination of six shop tested Companion Pullers that work together as the most complete set of Universal Pulling Tools. In addition to replacing many highly specialized and costly individual pullers, this set, with its broad scope of application, equips the mechanic to do all those time-consuming and arduous pulling jobs easily and without expensive delays.

1. Included is the No. 850 Adjustable Heavy Duty Puller and six threaded adaptors for axle shafts, cam shafts, drive shafts, transmission shafts, gears, bearings, sprockets, ball races and other parts.

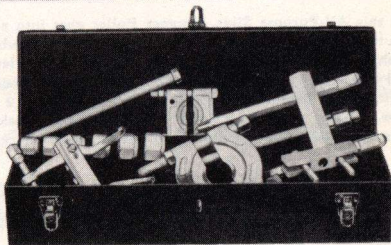
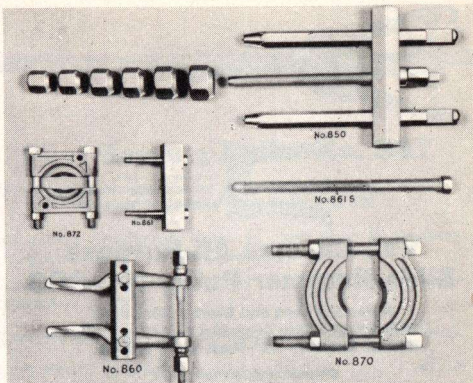
2. The Bearing Race Puller No. 860 with reversible jaws, for both inside and outside pulling, with a range of 1 3/4" to 4 3/4". It serves the widest variety of uses when combined with the No. 850 Heavy Duty Puller or the No. 861S Extra Long Forcing Screw.

3. No. 861 is necessary for pulling timing gears, cam gears, fan pulleys, balancers, crank shaft gears and many other jobs. It is an important attachment for the No. 850 or can be used as an individual puller in conjunction with Extra Long Forcing Screw.

4. Extra Long Forcing Screw No. 861S adapts the above pullers to a much wider range of service and makes Nos. 860 and 861 complete pullers in themselves because they are drilled and tapped all the way through the forcing blocks.

5. Gear Puller Attachment No. 872 makes an ideal combination when used with No. 862 Puller or No. 831 Gear Puller for generator gears, bearings, collars, races and other small parts inaccessible because of obstructions.

6. Bearing Separator No. 870 is included to separate and remove bearings on axle shafts of cars using double Timken bearings.



Van-Chrome Combination Puller Set No. 863

A Set That Never Becomes Obsolete

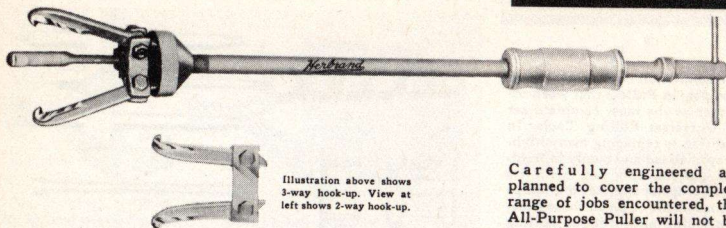
Chrome Molybdenum Steel

This power equipment is essential not only for automotive maintenance but for fleet operators, state and county shops, tractor service, farm and industrial machinery, power shovels and road equipment, pumps, or any equipment employing roller bearings, gears or other parts otherwise hard to remove.

SET No. 863, includes the Heavy Duty Puller No. 851 and six Adaptors—852, 853, 854, 855, 856 and 857. Bearing Race Puller No. 860. Timing Gear Puller No. 861. Extra Long Forcing Screw No. 861S. Gear Puller Attachment No. 872. Bearing Separator No. 870. See pages 52 to 56 for description of these tools. Weight 28 lbs.

LIST PRICE, complete in fitted metal box.....\$59.00

Other Attachments for Specific Jobs may be added at any time



Van-Chrome All-Purpose Slide Hammer Puller No. 866

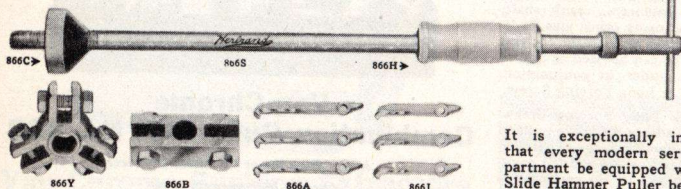
Reversible Long and Short Pulling Jaws
3-Way Yoke—2-Way Cross Block—Adjusting Cone
Booster Hammer—24" Shaft and T Handle

Chrome Molybdenum Steel

When this All-Purpose Slide Hammer Puller goes into action on the toughest job, that job is licked to a standstill. The heavy slide shaft has a $\frac{5}{8}$ " S.A.E. thread which fits a wide variety of special pullers and adaptors, some of which are described on the following page. Standard equipment includes 3 each of 2 sizes of jaws, a 3-way yoke and a 2-way cross block which makes it a universal 2-jaw or 3-jaw puller for inside or outside work.

Carefully engineered and planned to cover the complete range of jobs encountered, this All-Purpose Puller will not become obsolete every time a new car is announced because it adjusts to any size and shape as the need arises, and works equally well with a vast variety of special pullers and attachments, for either inside or outside pulling. It is the modern speed pulling tool of many uses and quickly adapts itself to almost any pulling job.

The shaft is sized and threaded for maximum efficiency and interchangeability with many and varying combinations. The cone not only adjusts the jaws to the correct dimensions but locks them securely for positive hold and safety.



ALL PURPOSE PULLER PARTS LIST

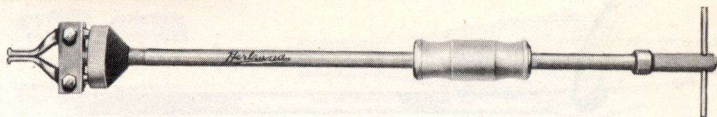
Number	Description of Part	List Price
866A	Set of 3 Reversible Pulling Jaws 5" long.....	\$4.20
866B	2-Way Pulling Block with bolts and nuts.....	1.60
866C	Reversible Adjusting Cone.....	2.00
866H	2 1/4 Lb. Sliding Booster Hammer.....	2.20
866J	Set of 3 Reversible Pulling Jaws 4" long.....	3.70
866S	24" Threaded Shaft and T Handle.....	2.50
866Y	3-Way Yoke for either short or long arms.....	2.30

No. 866 All-Purpose Puller complete which includes all the parts as listed above. Weight 7 lbs.

LIST PRICE, complete.....\$18.50

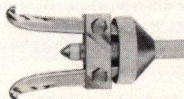
It is exceptionally important that every modern service department be equipped with this Slide Hammer Puller because it is quick, safe and economical and saves much lost time and avoids damaging expensive parts. The original Slide Hammer Puller was pioneered by Herbrand over ten years ago. The application of the many and varied pulling units, powered by the 2 1/4 lb. booster hammer, make it one of the most essential time and labor saving tools in the mechanics tool box. It is sold as a unit including 3 Short Jaws, 3 Long Jaws, 3-Way Pulling Yoke and 2-Way Cross Block.

For Important Attachments which increase the scope of this Puller, see pages 55 to 59



Designed to enter the hole in the smallest pilot bearing and with an expansion capacity to take the larger bearings found on trucks. Absolutely essential for pulling pilot bearings because this is the only manner in which they can be reached. It will also do any other inside or outside pulling job within its range.

Mechanics who own a Herbrand Slide Hammer need purchase only the Pilot Bearing Pulling Jaws which are listed on page 56.



2-Jaw hook-up for use on Long Forcing Screw

The most important and essential tools in the service station are these time and labor saving Pullers, Attachments and Combinations. Once the mechanic is equipped with either the Slide Hammer Puller No. 866 or the Heavy Duty Puller No. 851, he has the essential parts for any puller combinations to meet his individual requirements. It is unnecessary to buy costly special pullers because these Attachments are interchangeable and form special pullers for any job.

The Long Forcing Screw 861S when used with the Adjusting Cone and applied to the various Attachments makes individual pullers that work very efficiently.

The Adjusting Cone fits on the Slide Hammer, the Heavy Duty Puller or the Long Forcing Screw and not only adjusts and equalizes the jaws but locks them securely.

The main pulling shaft of both pullers has a $\frac{3}{8}$ " S. A. E. thread which is the correct size for all Attachments.

Pilot Bearing Puller No. 867

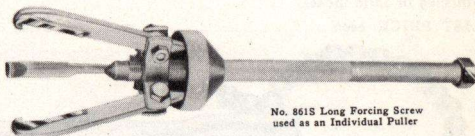
Jaws are Interchangeable for Use with All-Purpose Puller No. 866 and Heavy Duty Puller No. 851

All pulling Attachments shown on pages 55 to 59 are interchangeable for use with this Puller.

Capacity: Inside pulling $\frac{1}{2}$ " to 2"; outside pulling with legs reversed 1" to $4\frac{1}{4}$ ".

Complete as illustrated above. Weight 6 lbs. Satin nickel finish.

LIST PRICE, complete.....\$11.30



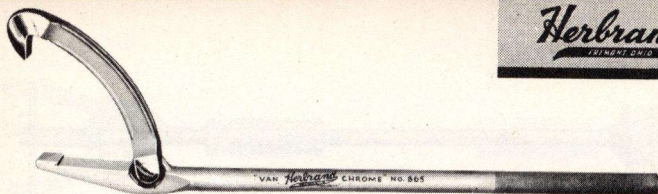
No. 861S Long Forcing Screw used as an Individual Puller

Van-Chrome Puller Attachments

Interchangeable for Use with All-Purpose Slide Hammer Puller No. 866—Heavy Duty Puller No. 851 and Long Forcing Screw No. 861S

An Irresistible Battery of Pullers and Universal Combinations

Number	Description of Part	Price
867A	Pilot Bearing Puller Assembly consisting of Special Pilot Bearing Puller Jaws, 2-Way Pulling Block and Adjusting Reversible Cone for use with No. 866 or 851 Pullers. See page 56.....	\$ 6.60
867J	Pilot Bearing Puller Jaws $3\frac{1}{4}$ " long, for use with No. 866 Slide Hammer. Refer to page 56 for description. Per pair.....	3.00
866P	All-Purpose Slide Hammer consisting of $\frac{3}{8}$ " Threaded Shaft with T Handle, Adjustable and Reversible Cone and $2\frac{1}{4}$ lb. Sliding Booster Hammer.....	6.70
861S	Extra Long $11\frac{1}{2}$ " Forcing Screw, $\frac{3}{8}$ " stock, for making Individual Pullers in combination with Attachments. See above.....	1.60
860	Bearing Race Puller Attachment, described on page 55.....	15.00
860 $\frac{1}{2}$	Extra Long 9" Jaws. See page 55. Per pair.....	7.50
861	Special Cross Block Puller Attachment for timing gears, and other important pulling uses. See page 55.....	4.15
852-857	Adaptors for pulling axle shafts, etc. See page 54.....	.....
866SJ	3-Way Pulling Yoke, with 3 reversible 4" Jaws, for use with Nos. 851, 861S and 866 Pullers.....	6.00
866LA	3-Way Pulling Yoke, with 3 reversible 5" Jaws, for use with Nos. 851, 861S and 866 Pullers.....	6.50
866B	2-Way Pulling Block only, with bolts and nuts, no jaws.....	1.60
866A	Set of 3 Reversible Pulling Jaws 5" long. Interchangeable for use with either 3-Way Yoke or 2-Way Cross Block.....	4.20
866J	Set of 3 Reversible Pulling Jaws 4" long.....	3.70
575-578	Blind Bushing Extractors. See page 56.....	.....



Van-Chrome Heavy Duty Spanner Wrench No. 865

Self-Adjusting Jaw—Capacity $1\frac{1}{2}''$ – $4\frac{1}{2}''$

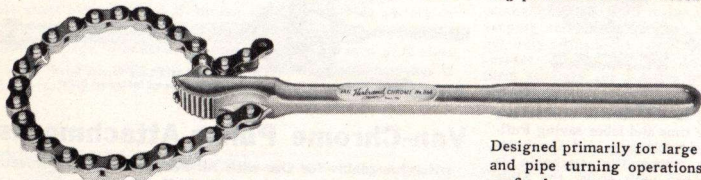
Drop Forged from Chrome Molybdenum Steel

An important New Tool that serves a multitude of uses in any automotive repair or industrial shop and is especially vital for truck, tractor or heavy machinery work. The super-power of this "new idea" Adjustable Hook Spanner Wrench defies the toughest nut turning or pulling job, especially on large diameters.

Capacity $1\frac{1}{2}''$ to $4\frac{1}{2}''$. Overall length 21". Weight 2 lbs. 10 ozs. Finished in Satin nickel.

LIST PRICE, each.....\$4.55

The flexible capacity and automatic adjusting feature of the hook jaw instantly grip any spanner or turret nut with a pulling force that makes them "come" with a minimum of effort. Very efficiently removes or tightens spanner or turret nuts, water pump gland nuts, packing nuts on Caterpillar transmissions, exhaust pipe lock nuts, removing grease retainers, adjusting drive shaft bearings on International truck differentials, straightening fender beads and is an outstanding performer for car wrecking.



Van-Chrome Master Chain Wrench No. 864

Capacity $\frac{1}{2}''$ to $4\frac{1}{2}''$ —For Any Shape Nut, Pipe or Rod

Chrome Molybdenum Steel—Drop Forged Handle

This all-purpose tool is so flexible in application that it is invaluable on many difficult jobs in industrial as well as automotive shops. It fits any shape nut, pipe or rod. The chain slips easily around the work in the most confined quarters and locks automatically in any position for an irresistible pull.

The special heavy duty chain is precision made to handle any work within its capacity. Each pin is carefully turned and each link is riveted so that it can never come loose. The chain is not guaranteed against abuse.

Finished in satin nickel. Capacity $\frac{1}{2}''$ to $4\frac{1}{2}''$. Length of handle 12". Length of chain 16". Weight 1 lb. 8 ozs. 6 to the box.

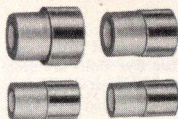
No. 864, Wrench complete with chain. LIST PRICE.....\$6.25

No. 864C, Chain only. LIST PRICE.....2.50

Designed primarily for large nut and pipe turning operations in confined quarters where large, long leverage wrenches are useless.

The 16" flexible chain slips easily around the work and locks in the hook jaws of the handle for a super-powered pull equivalent to a compound leverage wrench. The chain is an extended pin type especially built for this wrench and will withstand a pressure of 3200 pounds.

The handle is 12" long, drop forged from select Chrome Molybdenum Steel and heat treated for extra toughness and extreme leverage. The working end of the handle is milled with extra deep teeth for a full bite that prevents all danger of slipping—the harder the pull the stronger the bite.



Disc clutches must be centralized with the flywheel so that the clutch shaft will enter the pilot bearing readily. Exacting alignment of the clutch disc and pressure plate with the pilot bearing in the flywheel is absolutely essential for perfect performance.

This master Clutch Aligning Tool with the four Dual Pilots or Sleeves, which are interchangeable, is almost universal in scope, providing nine different diameters from .375 to .934.

Clutch Aligning Tool No. 847

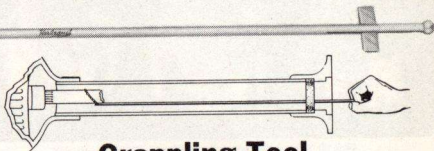
9 Sizes of Pilots for All Popular Cars and Light Trucks
Chrome Molybdenum Steel

Operation: (1) Attach proper size sleeve or pilot to the shaft of the tool with the locking screw; (2) push shaft of tool into the pilot bearing; (3) place clutch disc and pressure plate in position over tool and start cap screws; (4) slide adjustable tapered cone into splined hole of clutch disc and tighten cap screws. The disc will then be centered and clutch shaft will slide into place. Pilot Sizes: .590 and .612; .624 and .668; .749 and .786; .808 and .984; diameter of pilot integral with rod .375. Length 9". Weight 2 lbs. Nickel finish. 1 to the box.

LIST PRICE, complete with 4 double end pilots.....\$6.65



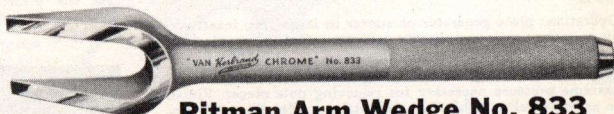
The unusual pulling power and ability to reach into axle housings and similar long reach places, makes this one of the handiest tools in the shop. It pulls broken axle stubs without removing grease retainers — opens locked car doors by reaching through no-draft windows—fishes in crank cases for dropped objects—holds bolts in place while turning nuts in cramped quarters—has innumerable daily uses. The harder the pull the firmer the grip.



Grappling Tool and Axle Remover No. 837

For Removing Broken Axle Shafts and Many Other Uses
Cable Has Tensile Strength of 960 Lbs.

This remarkable tool of a thousand uses operates with a sliding hand grip which tightens a woven steel cable around any object to be pulled. Bright nickel finish. Length 33". Weight 6 ozs. LIST PRICE, each, individually boxed.....\$2.10



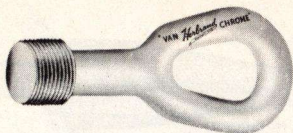
Pitman Arm Wedge No. 833

Most Universal Pitman Arm Puller Made
Drop Forged from Chrome Molybdenum Steel

The wedge shaped principle of pulling eliminates undue strain on costly steering assemblies and damage to parts. It gets into close quarters, requires no additional equipment or adjustments, yet forces the Pitman Arm from the splined shaft with little effort.

To operate: place tapered wedge of fork in position and with a few sharp hammer blows the Pitman Arm is forced off the splined shaft. Satin nickel with polished faces. Knurled handle. Length 12". Weight 2 lbs. 6 to the box.

LIST PRICE, each.....\$4.55



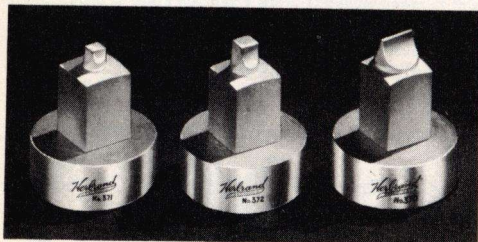
Van-Chrome Safety Engine Lifting Eye Bolts

Insurance Against Accidents When Lifting Motors

Drop Forged and Heat Treated

There is a size to fit all popularly used spark plug threads. No. 810, $\frac{7}{8}$ "-18 thread; No. 811, 14 mm; No. 812, 18 mm; No. 813, $\frac{1}{2}$ " pipe thread. Weight 7 ozs. Finished in satin nickel.

LIST PRICE, each.....\$1.25



Van-Chrome Pole Piece Screw Drivers

3 Sizes Necessary for Generator and Starter Work

Chrome Vanadium Steel

A new idea Revolving Screw Driver that is an absolute necessity in every shop doing generator and starter repairs. Any mechanic who has attempted to remove pole screws knows how tough this job is.

Operation: place generator or starter in large vise, insert screw bit or socket in slot, apply vise pressure to hold bit in place, turn square shank of bit with wrench.

Heat treated throughout for extra stamina and to withstand the extreme pressure necessary for removing pole pieces. Finished in satin nickel with highly polished base. Weight each 8 ozs.

No. 370, Screw Driver Bit for removing generator pole pieces on most cars.

No. 371, Square Socket Bit, $\frac{7}{32}$ " square for Ford pole pieces.

No. 372, Square Socket Bit, $\frac{9}{32}$ " square for Ford pole pieces.

LIST PRICE, each.....\$2.05

SET No. 375, one each of Nos. 370, 371 and 372. Weight 1 lb. 8 ozs.

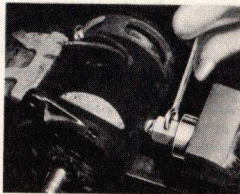
LIST PRICE, complete in fibre box.....\$6.00

The safest means of lifting motors because Eye Bolts are drop forged and heat treated for absolute insurance against breakage.

Make-shift methods of lifting engines are dangerous and costly. These extra strong Eye Bolts insure safety to the mechanic and avoid dropping or damaging costly parts.

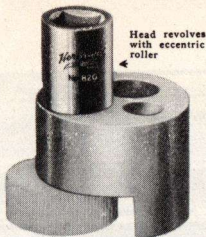
The Safety Eye Bolts are simply screwed into the spark plug holes and attached to the chain hoist.

The pole pieces in generators and starters must be driven in very tight to eliminate the air gap between the housing and the pole piece. The screws are tightened to the limit to insure satisfactory performance and it is impossible to remove them with an ordinary screw driver. Herbrand Pole Piece Screw Drivers remove the tightest screws with ease and without twisting out the slot or socket. A vise supplies the power and holds the bit in position. It is unnecessary to ease the pressure because the pole piece moves inwardly off the screw.



Pole Piece Screw Driver in Action

This compact tool handles a complete range of service including the rear studs close to the dash. Bulk and clumsiness are eliminated, permitting it to engage and remove studs which are inaccessible to other tools. It operates on the gear principle for gripping, develops tremendous power, cannot slip and will not lock on the job. The self-adjusting, eccentric roller sets flush with the housing of the tool and has deep, precision cut teeth to service studs that have been twisted off close to the block.



Head revolves with eccentric roller

Eccentric Stud Puller No. 820

Ratchet Action—Capacity $\frac{1}{4}$ " to $\frac{3}{4}$ "

Made from Chrome Molybdenum Steel

Has $\frac{1}{2}$ " square drive service connection for use with any ratchet handle, flex handle, or standard socket unit. Nickel plated and polished. Height $2\frac{1}{16}$ ". Wt. 1 lb. 4 to box.

LIST PRICE, each.....\$3.75

A cam action principle, which grips the threads of the studs instead of the body, and exerts a tremendous pressure, has been developed in Sure-Grip Stud Removers. No matter how badly rusted or corroded they remove the studs with the engine head in place and without damage to threads or danger of cracking frozen cylinder heads. Primarily designed for cars with aluminum heads, they work equally well on any type within their range. Any mechanic who has struggled with corroded cylinder heads and studs will appreciate these stud removers.



Sure-Grip Stud Removers

Essential for Rusted and Corroded Studs in Aluminum Heads

Turns in a $\frac{1}{8}$ " Radius—Threaded to Fit Studs

To remove studs from engine block: unscrew nut and turn Sure-Grip Stud Remover on in its place and turn out stud.

Satin nickel, polished heads. Weight each 4 ozs. 6 to box.

No. 815— $\frac{3}{8}$ " x 24 thread; No. 816— $\frac{7}{16}$ " x 20 thread; No. 817— $\frac{1}{2}$ " x 20 thread.....LIST PRICE, each.....\$1.50

SET No. 814, one each of 3 above, LIST PRICE, complete..... 4.25

The teeth on the curved jaw are constructed similar to an alligator wrench to bite into the work, and the teeth on the lower jaw are square-cut to hold on firmly when pressure is applied. The positive biting grip gets pipe, fittings and rods, tough and battered nuts, whether square, hex or rounded. Corroded and rusted nuts come easy with this amazing tool which replaces many wrenches and several pair of pliers.



Eagle Beak Plier No. 155

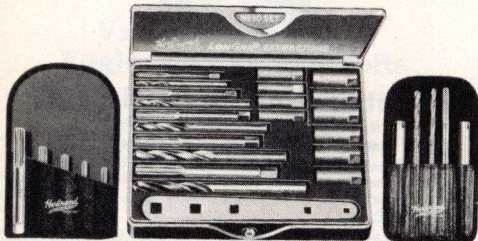
Compound Action—For Studs, Brake Rods, Bolts, Nuts and Pipe

Ten Times More Gripping Power Than An Ordinary Plier

This 10 to 1 Power Plier has a capacity of $\frac{1}{4}$ " to $\frac{3}{4}$ " round and takes a positive biting grip on any square, round or irregular shapes. Satin nickel finish. Length 10". Weight 14 ozs. 6 to box.

LIST PRICE, each.....\$3.20

See page 119 for Special Ford Cylinder Head Puller



Sets XX-3, XX-5

Set No. XX-10

Set No. X-48

Screw and Stud Extractors

Straight Flutes—No Taper

A New, Positive Method of Screw Extraction Saves Dismantling, Shutdowns and Costly Delays

Operation:

1. Drop proper size centering drill guide in stud hole—insert drill and drill clear through broken off screw bolt or stud.
2. Insert enlarging drill and drill stud or bolt to a thin shell.
3. Drive in extractor and turn out broken ends.

Set No. XX-10 for Screws of Diameters $\frac{1}{4}$ " to $\frac{1}{2}$ " Inclusive

A popular assortment of standard length Extractors, Drills and Guides for $\frac{1}{4}$ " to $\frac{1}{2}$ " screws or studs, suitable for depth extraction up to 1". Contents: 5 Extractors, Nos. 1E to 5E inclusive with screw diameters $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ ". 5 Special Centering Drills. 10 Drill Guides and an Extractor Wrench. Total of 21 pieces. Weight $2\frac{1}{4}$ lbs.

LIST PRICE, complete in die cast metal box.....\$10.85

Extractor Assortments

SET No. XX-3, 1 each of Extractors Nos. 3E, 4E and 5E. Screw diameter $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ ". Weight 4 ozs.

LIST PRICE, in pocket leatherette case.....\$2.55

SET No. XX-5, 1 each of Extractors Nos. 1E, 2E, 3E, 4E and 5E. Screw diameter $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", $\frac{7}{16}$ ", $\frac{1}{2}$ " and $\frac{5}{8}$ ". Weight 6 ozs.

LIST PRICE, in leatherette case.....\$3.80

Extra Deep Screw Extractor Set No. X-48

For $\frac{7}{16}$ " screws. Especially valuable for extracting broken cylinder head studs

This set will handle practically all cylinder head jobs without removing the head from the block. Easily and safely extracts deep seated $\frac{7}{16}$ " broken screw or stud ends up to $5\frac{1}{2}$ " depth.

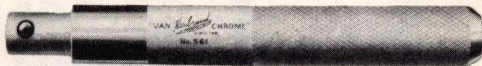
Contains $\frac{7}{16}$ " Extra Long Extractor, $\frac{1}{4}$ " Centering Drill, $\frac{5}{16}$ " Enlarging Drill and 2 Drill Guides. Weight 1 lb.

LIST PRICE, complete in leatherette case.....\$7.85

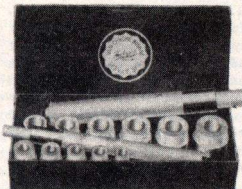
When screws and studs break off they invariably leave the end below the surface where they must be drilled out to a thin shell for safe and easy removal. Blind center punching, drilling and the use of obsolete spiral or tapered removers usually result in breakage, failure and costly delays.

Revolutionizing old methods of screw and stud extraction these Straight Fluted Extractors obsolete the old tapered type. They are the *only* extractors that positively engage broken threaded ends their entire length. When inserted they key themselves into the shell, work like an internal socket wrench and cannot turn into, or out of, the broken ends. There is no damaging of costly parts or threads, no wedging, no reaming or shell spreading and no failures. The straight fluted principle eliminates all guess work and hazards because guides are used for accurate centering at depths. Drill clear through a broken off screw, bolt or stud end, drive in a Straight Fluted Extractor and turn it out easily and safely.

These Straight Fluted Extractors provide the only safe and efficient means of removing broken threaded ends of studs and screws that are deep below the surface and positively eliminate dismantling motors, machinery or parts to expose stud ends.



Handle No. 561



Set No. 570½

Out with the old—in with the new! It's simple to remove old bushings and install new ones in record time, without damage, when you use these efficiently designed Bushing Service Tools.

The new thin bushings used so extensively on modern cars are difficult to remove without the proper tools. Eighteen interchangeable Step Collars and three Driving Handles cover a complete range of sizes for the large variety of bushings encountered on present day cars and motors.

Included in these sets is a size for nearly every bushing found on generators, starters, distributors, transmissions, pistons, connecting rods, tie rods, spindles, king pins, springs, steering gears, pumps and bushings found on small motors or heavy equipment.

Collars are accurately machined to insure a perfect fit and are held securely in place on the Driving Handle by a spring compression ball. The handles are deeply knurled.

All parts are expertly heat treated. Finished in triple satin nickel with polished heads.

Bushing Service Tools

A Size for Every Need—Stress Proof Steel

Small ¾" Service Step Collars

Catalog Number	Inside Diam. Bushing	Outside Diam. Bushing	Height Overall	Weight Ea. Ozs.	List Price Each
552	1/8	9/8	1	2	\$.40
553	3/16	1 1/16	1	2	.40
554	1/4	1 1/4	1	3	.40
555	5/16	1 3/8	1	3	.45
556	3/4	2 1/8	1	3	.45
*557	2 3/32	2 7/32	1	3	.45

*For Chevrolet King Pins

No. 551 Driving Handle ¾" service for above Step Collars. Length 7".

LIST PRICE, each.....\$1.25

SET No. 550, 1 each of the 5 Collars Nos. 552 to 556 and No. 551 Handle.

LIST PRICE, in fibre box.....\$3.35

Standard ¾" Service Step Collars

562	1 1/16	1 3/8	1	3	\$.60
563	1 1/8	1 1/2	1	3 1/2	.60
564	1 1/4	1 5/8	1	4	.60
565	1 1/2	1 7/8	1	4 1/2	.70
566	1 3/4	2 1/8	1	5	.70
567	1 7/8	2 1/4	1	5 1/4	.70

No. 561 Driving Handle ¾" service for above Step Collars. Length 7".

LIST PRICE, each.....\$1.50

SET No. 560, 1 each of the 6 Collars Nos. 562 to 567 and No. 561 Handle.

LIST PRICE, in fibre box.....\$5.40

SET No. 570 and 570½, an assortment of 11 Collars Nos. 552 to 556 and 562 to 567 and 2 Handles Nos. 551 and 561.

LIST PRICE, No. 570, complete in fibre box.....\$8.75

LIST PRICE, No. 570½, complete in metal box.....9.45

Heavy Duty ¾" Service Step Collars

For Trucks, Buses, Tractors and Large Motors

582	1 3/16	1 7/8	1 1/8	4 1/2	\$.75
583	1 1/4	1 5/8	1 1/8	5	.75
584	1 1/2	1 7/8	1 1/8	5 1/2	.75
585	1 5/8	2 1/8	1 1/8	6	.85
586	1 3/4	2 1/4	1 1/8	7	.85
587	1 7/8	2 3/4	1 1/8	7 1/2	.85

No. 581 Driving Handle ¾" service for above Step Collars. Length 8 1/4".

LIST PRICE, each.....\$2.00

SET Nos. 580 and 580½, 6 Collars Nos. 582 to 587 and No. 581 Handle.

LIST PRICE, No. 580, in fibre box. Weight 4 lbs. 4 ozs.....\$6.80

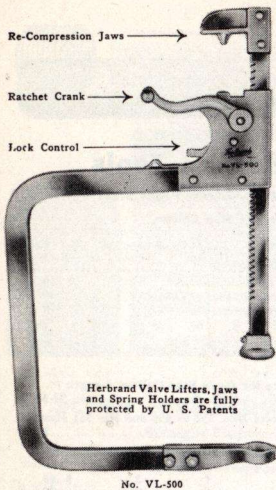
LIST PRICE, No. 580½, in metal box. Weight 5 lbs. 7 ozs.....7.50

Complete Full Range Set—Light, Standard and Heavy Duty

SET Nos. 590 and 590½, a complete assortment of 5 Step Collars Nos. 552 to 556 and Driving Handle No. 551; 6 Collars Nos. 562 to 567 and Driving Handle No. 561; 6 Collars Nos. 582 to 587 and Driving Handle No. 581. Weight 12 lbs.

LIST PRICE, No. 590, complete in fibre box.....\$15.55

LIST PRICE, No. 590½, complete in metal box.....16.45



Herbrand Valve Lifters, Jaws and Spring Holders are fully protected by U. S. Patents

No. VL-500

Spring compressed in Holder ready for replacement in motor

Three sizes of Spring Holders are available

VL-511 Jaws

VL-512 Jaws

VL-513 Jaws

Valve Spring Lifter and Compressor No. VL-500

Fits More than 90% of All Cars and Trucks

With Distinctive Re-Compression Feature

Complete with Straight Jaws and set of 3 Spring Holders. Satin finish. Size inside of frame 9 3/4" x 11 3/4". Weight 5 lbs. 7 ozs.

LIST PRICE, each.....\$10.80

Valve Spring Lifter No. VL-501

Without Re-Compression Jaws

An efficient tool with the same features as VL-500 described and illustrated, but without the re-compression jaws. Weight 5 lbs.

LIST PRICE, complete with Straight Jaws.....\$7.50

Extra Jaws for Herbrand Valve Lifters

Interchangeable with the Straight Jaws for motors with low block clearance.

No. VL-510, Straight Jaws for most cars, also for Cadillac and Lincoln.....\$1.65
No. VL-511, Offset Jaws for G. M. C. and all Continental Motors.....1.65

No. VL-512, Special Offset Jaws for motors requiring extra offset, and Dodge 6.....\$2.00
No. VL-513, Special for Chrysler, Dodge, Plymouth and Waukesha Motors.....2.00

Spring Holders used with Valve Lifters

For holding re-compressed springs for replacement in motor.

No. VL-521S, Bent Holder, Short.....\$.80
No. VL-521L, Bent Holder, Long......80
No. VL-522, Unbent Spring Holder......80

No. VL-520, Set of 3 Spring Holders, 2 bent and 1 blank, complete.....\$2.00

No. VL-514, Special L Attachment and Spring Jaws for Airflow Motors, complete.....\$2.50

More different cars are serviced with this unparalleled, ratchet action, automatic locking Valve Tool than any other type manufactured. Its many exclusive features and refinements make it adaptable to practically all cars and trucks. Simple and easy in application, this one-hand Lifter is speedy and efficient in use and eliminates the aggravation and loss of time always encountered with makeshift tools.

The positive, vertical lift and the patented jaws make it impossible for them to slip off the spring. Exceptionally thin jaws, hardened and tempered from the toughest spring steel are constructed to take any size spring or washer, and insert readily above the washer where other types fail to function.

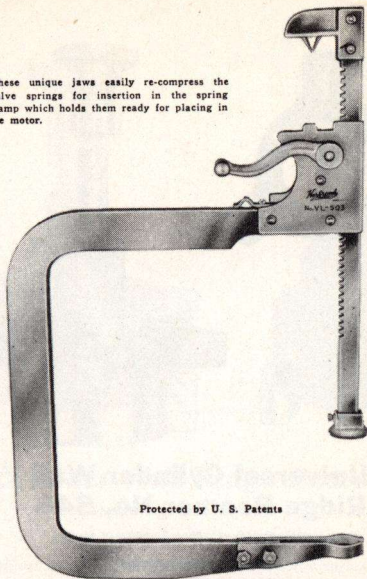
A special ratcheting device is built into the crank handle for clearance of obstructions and for work in restricted quarters. The automatic lock positively holds the spring at any desired position leaving the operator's hands free to remove the valve keepers.

The action of the tool employs the rack and pinion principle and no adjustments are required either on the top or bottom. Designed to clear the exhaust manifold and other obstructions without necessitating removal.

Another outstanding feature of this Valve Lifter is the top jaw construction making it quick and easy to re-compress springs for replacement in the motor. This self-contained tool saves plenty of time and labor. Equipped with No. VL-513 special offset jaws it is the only tool that handles Chrysler and Waukesha motors without removing the manifold.

Refer to page 114 for Special Ford Valve Lifters

These unique jaws easily re-compress the valve springs for insertion in the spring clamp which holds them ready for placing in the motor.



Protected by U. S. Patents

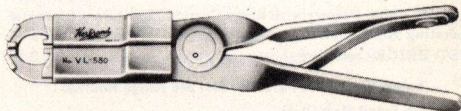
Heavy Duty Valve Lifter and Compressor No. VL-503

For Large Trucks, Buses and Tractors

With Re-Compression Feature

No. VL-503, complete with Straight Jaws and set of three Spring Holders. Size inside of frame 11" x 13". Weight 7 lbs. 8 ozs.

LIST PRICE, each.....\$14.10



Valve Key Replacer No. VL-530

For All Size Valve Keys

Easy loading feature—draw back the sliding bars—insert split lock or key in jaws—release bars against the split lock.

Length 5½". Weight 2 ozs. Satin finish. 6 to the box.

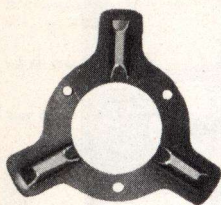
LIST PRICE, each.....\$1.65

Motors on heavy trucks, buses and tractors require a larger capacity and heavier, more powerful Valve Spring Lifter and Compressor. VL-503 has the same labor saving features as the standard type described on the preceding page but is more ruggedly built with a bigger frame and the extra power for those tough, heavy duty jobs. The C frame design will handle the toughest spring compression work without removing the manifold or other interfering parts.

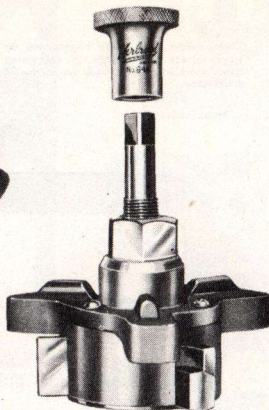
The convenience of the ratchet handle is readily understood by the mechanic who has encountered difficulties with ordinary lifters. There is a great economy of time because the rack and pinion drive locks automatically at the most practical position for the work and leaves the hands of the mechanic free to remove and catch lock washers. No adjustments are necessary either to the top or bottom.



Holds and replaces all valve keys and horse-shoe locks regardless of size and shape. The compact steel jaws put the keys into locking position in the tightest places. Ample spring tension and firm sealing eliminate any possibility of locks becoming dislodged and dropping into the crankcase before reaching or being placed in proper position on the valve stem. The plier action perfectly controls the placing of valve keys under all working conditions.



Patent Applied For



Universal Cylinder Wall Ridge Reamer No. 846

Expanding Cutters—Range $2\frac{1}{16}''$ to $4\frac{7}{8}''$

Latest Improved Design

To operate: Insert tool in cylinder bore with rest plate on motor block. Remove knob and turn square adjusting screw until cutters lightly engage the unworn ridge. To prevent chattering and for a perfect job only light cuts should be taken and the tool must not be turned backwards. To insert cutters: remove bottom plate. To interchange rest plates: remove three machine screws on top.

No. 846 Set, complete as illustrated consisting of the Ridge Reamer, two sizes of Rest Plates, two sets of Cutters and knurled Operating Knob. Capacity $2\frac{1}{16}''$ to $4\frac{7}{8}''$. Weight 4 lbs. 10 ozs.

LIST PRICE, complete.....\$12.75

No. 846S, Ridge Reamer with Short Cutters, Small Rest Plate and Operating Knob. Cutting range $2\frac{1}{16}''$ to $3\frac{7}{8}''$. Weight 3 lbs.

LIST PRICE, complete.....9.00

Interchangeable Parts for No. 846 Ridge Reamer

No. 846SP, Small Rest Plate.

LIST PRICE, each.....\$1.00

No. 846LP, Large Rest Plate.

LIST PRICE, each.....1.00

No. 846SC, Short Cutters.

LIST PRICE, per set of three.....3.30

No. 846LC, Long Cutters.

LIST PRICE, per set of three.....3.30

At last — a Ridge Reamer with a capacity for most passenger cars and many trucks. Removes the ridge or unworn part at top of cylinder walls on any bore to $4\frac{7}{8}''$.

The three expanding high speed cutters have guides at the bottom which prevent removing too much metal. The guides follow the contour of the cylinder wall and automatically stop cutting as soon as the ridge is entirely removed.

The three cutters rotate simultaneously producing a cutting speed that removes the ridge in a minimum of time leaving a cylinder wall that is smooth and uniform. The triple action of these cutters reduces the time and labor more than one third over the conventional type.

No. 846 Universal Ridge Reamer is available with two sizes of interchangeable cylinder head rest plates and two sets of adjustable cutters. No. 846LP large rest plate and 846LC long cutters for cars where the cylinder bore does not exceed $4\frac{7}{8}''$; No. 846SP small rest plate and 846SC short cutters for the minimum bore of $2\frac{1}{16}''$. In cars where the bore does not exceed $3\frac{7}{8}''$ the small rest plate is used with the short set of cutters.

On cars with recessed heads or where the cylinder head studs are set close to the bore, remove the rest plate and select the correct size cutters. Set the tool on top of the piston raising it to the proper height so that the cutters will engage the ridge.

Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Time Payment Plan.



Four Ridge Reamers for removing the unworn part or ridge at the top of cylinder walls. Simple and easy to use, they do this difficult job accurately and efficiently in a few minutes' time without scratching or scoring. The three expanding cutters have guides at the bottom which prevent removing too much metal.

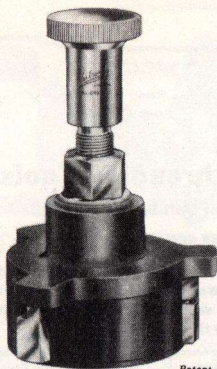
The salient feature of these tools is that the cutters are so designed that they automatically stop cutting as soon as the ridge is entirely removed. The guides follow the cylinder walls and the cutters remove metal only where necessary to conform to the cylinder contour.

The cutters are made from a special analysis Tool Steel and the entire tool is built for long life and lasting service. Light in weight yet remarkably effective for doing this difficult job with minimum effort.

Available in four sizes with a complete range of service operating efficiently on $2\frac{3}{16}$ " to 5" inside cylinder diameters.

Whenever motors are reconditioned Ridge Reamers are an absolute necessity because much grief and expense is likely to be encountered if the ridge at the top of the ring travel is not accurately removed before installing new rings.

The cost is moderate and no mechanic can afford to be without them.



No. 840



No. 839

Patent Applied For

Cylinder Wall Ridge Reamers

Three Expanding Types—Range $2\frac{3}{16}$ " to 5"

Indispensable for Motor Reconditioning

To adjust cutters: remove knob at the top and turn the square adjusting screw to the right. The knurled knob provides a novel means of supplying proper pressure to hold the tool firmly in place and prevent chattering. Turning the tool backwards and taking heavy cuts should be avoided. Available in four sizes:

No. 839, capacity $2\frac{3}{16}$ " to $2\frac{15}{16}$ ". For Ford V8-60, Foreign makes and all small bore diameters. Not equipped with rest plate because studs on small model Fords are so close to the cylinder wall that the Reamer cannot revolve. The Reamer should be placed on top of the piston which is raised or lowered to the required position and revolved on top of it. Weight 1 lb. 12 ozs. Height $4\frac{1}{2}$ ".

LIST PRICE, each.....\$ 8.25

No. 842, capacity $2\frac{11}{16}$ " to $3\frac{5}{8}$ ". Weight 3 lbs. Height $5\frac{1}{2}$ ".

LIST PRICE, each..... 9.00

No. 840, capacity $2\frac{15}{16}$ " to 4". Weight 3 lbs. 6 ozs. Height $5\frac{1}{2}$ ".

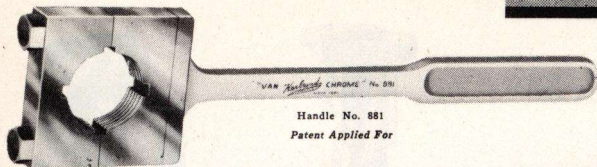
LIST PRICE, each..... 9.00

No. 844, capacity $3\frac{3}{16}$ " to 5". Weight 4 lbs. 12 ozs. Height $5\frac{1}{2}$ ".

LIST PRICE, each..... 10.00

No. 845, Set of 3 Extra Cutters. Specify size desired.

LIST PRICE, per set..... 3.30



Handle No. 881

Patent Applied For

Van-Chrome Rethreading Tools

Interchangeable Unit Dies

6 Popular Sized Cutters

The die should be placed on the shaft back of the damaged threads and backed off, making two or three passes—tightening the die slightly each time. The final pass should be made with the bolts securely tightened which will size threads perfectly.

Catalog Number	Size of Die	Threads to Inch	Weight Ozs.	List Price Each
882	$\frac{5}{8}$	18 SAE	$9\frac{1}{2}$	\$1.65
883	$\frac{3}{4}$	16 SAE	9	1.65
884	$\frac{7}{8}$	14 SAE	9	1.65
885	1	14 SAE	$8\frac{1}{2}$	1.90
886	$1\frac{1}{8}$	12 SAE	8	1.90
887	$1\frac{1}{4}$	12 SAE	$7\frac{1}{2}$	1.90

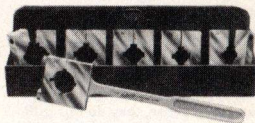
No. 881 Handle only. Length $10\frac{1}{4}$ ". Weight 9 ozs.

LIST PRICE, complete with bolts, each.....\$ 1.10

SETS Nos. 880 and $880\frac{1}{2}$ include Handle No. 881 and the 6 Interchangeable Dies listed above. Weight 3 lbs. 12 ozs.

SET No. 880, complete in fibre box.....LIST PRICE.....\$11.75

SET No. $880\frac{1}{2}$, complete in metal box.....LIST PRICE..... 12.45



Set No. $880\frac{1}{2}$

The "Van-Chrome" Rethreader is the most modern for straightening and restoring battered or deformed threads which have become damaged through pounding or cross threading on axle shafts, cam shafts, transmission and drive shafts, bolts and studs.

Any size Rethreading Die may be quickly inserted in the drop forged handle. Old type rethreaders with several dies permanently cut in one tool are wasteful and costly because the sizes most frequently used cannot be replaced.



Thread Restoring Tool No. 897

Eight Different Pitches for Inside and Outside Threads

High Speed Tool Steel Cutters

When the die head is used parallel to the handle it is an inside chaser; when used at right angles to the handle it is an outside chaser. With a steady rest it works to advantage on a lathe.

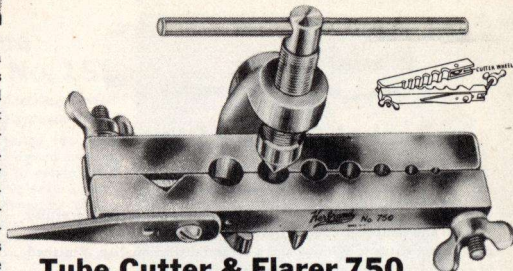
The two four-edged dies carry accurately machined pitches of 8, 10, 12, 14, 16, 18, 20 and 24 which are easily and quickly interchanged or reversed on the drop forged handle.

Finished in satin nickel. Length $8\frac{1}{4}$ ". Weight 6 to the box.

LIST PRICE, each.....\$3.30

Eight different pitches for both inside and outside threads—all in ONE tool. Battered, deformed and mutilated threads are quickly restored with this Modern Thread Chaser to readily engage threads and make nuts turn on easily. The heads are interchangeable so that any inside or outside thread may be accurately restored. Particularly useful on big diameters like wheel hubs, bearing cages, differential carriers, axle housings and other large threads.

Seven flaring dies are included in this tool to give all popular sizes of tubing the accurate flare and taper that insures a perfect, tight joint. It does a speedy job without the aid of loose dies or vise. The keen, thin edge of the cutter wheel easily cuts all sizes of tubing from $\frac{3}{16}$ " to $\frac{5}{8}$ " without flattening or distorting, and eliminates the possibility of filings dropping into the feed lines. The adjustable V shaped section acts as a tube reamer. To get a perfect flare: tighten tubing in the proper size opening, turn up lock nut and screw down T handle. To operate cut off: tighten tubing in the vise jaws and revolve tool.

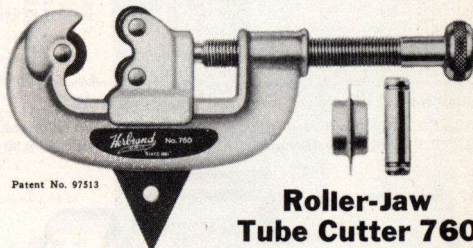


Tube Cutter & Flarer 750

Range from $\frac{3}{16}$ " to $\frac{5}{8}$ "—Three Tools in One

No. 750. Nickel Plated. Length $5\frac{1}{2}$ ". Weight 1 lb. 10 ozs.

LIST PRICE, complete.....\$6.50



Patent No. 97513

Roller-Jaw Tube Cutter 760

Capacity $\frac{1}{8}$ " to 1" OD—Self Centering Feature—Automatic Feed

The razor-edge wheel cuts brass, bronze, copper or similar tubing through the entire thickness without internal or external burr.

No. 760, Length $5\frac{1}{2}$ ". Weight $6\frac{1}{2}$ ozs. 6 to the box.

LIST PRICE, each.....\$2.90

Extra Cutter Wheels for Nos. 750 or 760. Specify number.

LIST PRICE, each......50



Flexible Tube Benders

Made in 6 Sizes—For Tubing from $\frac{1}{4}$ " to $\frac{5}{8}$ "

Number	Size	Length	Wt. per Doz.	List Each
752	$\frac{1}{4}$ "	$7\frac{1}{2}$ "	1 lb. 14 ozs.	\$.40
753	$\frac{3}{8}$ "	$7\frac{1}{2}$ "	2 lbs. 3 ozs.	.40
754	$\frac{1}{2}$ "	$7\frac{1}{2}$ "	2 lbs. 8 ozs.	.45
755	$\frac{3}{4}$ "	$7\frac{1}{2}$ "	3 lbs. 2 ozs.	.45
756	$\frac{1}{2}$ "	$7\frac{1}{2}$ "	3 lbs. 12 ozs.	.50
758	$\frac{5}{8}$ "	$7\frac{1}{2}$ "	3 lbs. 12 ozs.	.55

SET No. 759, containing one each of 6 Benders.

LIST PRICE, complete in fibre box.....\$2.75

Simply screw the rollers up tight and revolve tool until cut is made. Tension spring in roller housing feeds wheel blade into tubing without further tightening of screw. The twin rollers in the jaw smooth the tubing ready for soldering.

The cutting wheel is always accurately held on center and automatically moves in a straight line, insuring only precision, right angle cuts. This eliminates all possibility of distortion of tubing, ragged edges or off-center cuts. The replaceable cutter wheel is held in place with pin and clip springs.

Copper tubing cannot be bent without kinking unless the Tube Bender is used. These simple yet practical Benders do a perfect job and eliminate all possibility of distorting.

They bend the tubing by hand to any desired shape without collapsing the tubing. Satin finish.



Gasket Cutting Punches

For Cutting Gaskets, Shims, Templates, Etc.

Chrome Vanadium Steel

Machined to accurate sizes and the cutting edges are carefully ground and honed. A special heat treating and tempering process gives them extra toughness and a clean cutting quality. Finished in satin nickel with polished heads.

Punch Number	Cutting Size Diameter	Length	Weight per Doz. Lbs.	Ozs.	List Price Each
771	1/4	2 7/8	1	8	\$1.00
772	3/16	2 7/8	2	4	1.05
773	3/8	2 7/8	2	4	1.05
774	1/2	2 7/8	3	..	1.10
775	5/8	2 7/8	3	..	1.10
776	3/4	2 7/8	3	..	1.20
777	7/8	2 7/8	3	12	1.20

SET No. 770, one each of the above. Weight 1 lb. 8 ozs.

LIST PRICE, in fibre box.....\$7.70

LIST PRICE, in leatherette case.....8.30



Van-Chrome Dash Hole Cutters

Fast—Long Life—Clean Cutting

Chrome Alloy Steel—Capacity 1" to 2 1/2"

Made in three sizes: No. 898 cuts 1" hole; No. 899 cuts 1 1/4" hole; No. 895 cuts 2 1/2" hole.

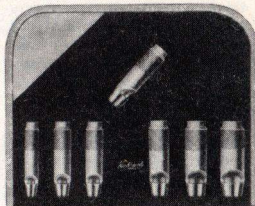
To operate: For Nos. 898 and 899 drill 1/2" hole in dash; for No. 895 drill 3/16" hole in dash. Insert cutter on inside, slip die over bolt and tighten nut. The cutters do not revolve but the knife edges are pulled through the metal leaving a clean, round hole. Heat treated and finished in satin nickel with polished sides.

Nos. 898 and 899, length 4 1/2". Weight 1 lb. 3 ozs.

LIST PRICE, each.....\$3.10

No. 895, for air conditioning and combination heater units. Length 5". Weight 3 lbs.

LIST PRICE, each.....\$7.50



Set No. 770

When gaskets, shims or templates must be cut on the job, the newly designed Herbrand Gasket Punches will be found invaluable and economical from a time-saving standpoint. They cut perfectly and equally well on sheet packing, rubber, lead, brass, copper, leather and other materials. Mechanics and engineers in garages, oil refineries, power stations, steamships and industrial plants cannot afford to be without them especially when an emergency requires immediate replacements.



When cutting holes in metal dash for installing radios, water heaters, air conditioning units, and dash panel equipment these cutters have no equal. They work on the punch and die principle and do not revolve. The forcing screw pulls the punch into the close fitting die leaving a perfect, smooth, round hole. Extremely speedy in action, simple operation and construction give them unlimited life.

The large size No. 895 cutter is necessary for the installation of the new type air cleaners and combination heaters.

Van-Chrome Diagonal Cutter No. 152

Unequalled in Toughness and Cutting Power
Drop Forged, Heat Treated and Individually Tested

A real pair of Diagonals. Unequalled for sheer cutting ability. The perfectly aligned cutting blades are hand filed and honed to retain their clean, sharp edges. Precision built with a short fulcrum to provide a powerful leverage with a minimum of hand pressure—easy-riding joint—tapered nose for maximum clearance.

Drop forged from grain controlled Tool Steel, hardened and tempered for toughness and keen cutting power.

Hand polished. Length $7\frac{1}{2}$ ". Wgt. 8 ozs. 6 to box.
LIST PRICE, each.....\$4.00

Utility Hex-Jaw Plier 164

For General Utility—Square or Hex Nuts

Drop Forged from Chrome Vanadium Steel

The combined utility of a plier and an open end wrench, built into one tool for all-around work. The machined hex-jaw with the hard gripping teeth, easy adjusting five slip joints, has the capacity for the wide range of nuts commonly used.

Five adjustments. Range 0" to $1\frac{3}{4}$ ". Length 10".
Weight 10 ozs. Chrome plated, polished heads.

LIST PRICE, each.....\$2.00

Combination Plier 151

Drop Forged and Heat Treated

This general utility plier retains the well known Herbrand quality. Lgth. 6". Wgt. 8 ozs. 12 to box.

No. 151-B, Black enamel.....LIST PRICE.....\$.35

No. 151-S, Satin nickel.....LIST PRICE..... .40

Metal Cutting Snips

For Straight, Circular and Irregular Shapes

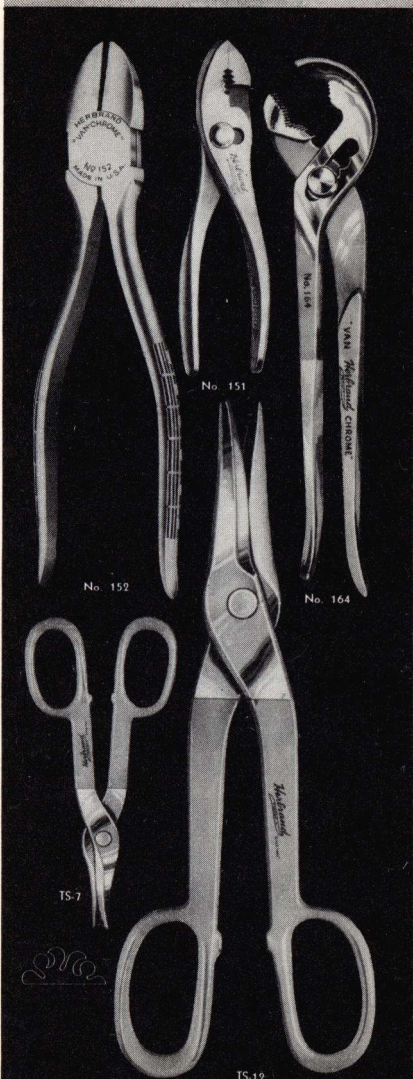
Drop Forged, Heat Treated and Adjusted

For cutting intricate patterns or curves, cleanly and smoothly, without bending the metal, these special "duck-bill" snips have no equal. The thin cutting edges of the blades, with well-balanced, strong leverage handles, produce a cutting quality that cleanly cuts body, sheet metal or other heavy materials with ease.

Available in two popular sizes for automotive application. The 7" is particularly adapted to cutting shims and gaskets, the 12" cuts larger areas and heavier metals.

No. TS-7. Length 7". Cut $1\frac{3}{4}$ ". Weight 7 ozs.
LIST PRICE, each, 6 to box.....\$1.60

No. TS-12. Length 12". Cut 3". Weight $1\frac{1}{2}$ lbs.
LIST PRICE, each, 1 to the box..... 2.50





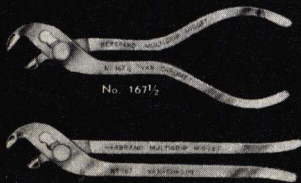
Set No. M-3



No. 166 1/2



Set No. M-4



167

Original Van-Chrome Multigrip Pliers

5 Sizes—For Water Pump, General Service and Electrical Work

Drop Forged from Chrome Vanadium Steel

Herbrand created the Multigrip Plier Family to equip the mechanic completely for a wide range of service. Their thin jaws and unique construction make it easy to reach into inaccessible quarters. The precisely machined extra deep teeth and positive bull-dog grip permit either the fine close adjustment or the strong, hard pull. All Multigrips are fitted with an Alloy Steel bolt and nut. Chrome plated with bright polished heads.

Multigrip Water Pump General Service Pliers

No. 166 1/2, 6 adjustments. Range 0" to 2". Length 9 3/4". Weight 12 ozs.

LIST PRICE, each.....\$2.00

No. 166 has 5 slip joints. Range 3/8" to 1 7/8". Length 9 1/2". Weight 8 ozs.

LIST PRICE, each.....\$1.80

No. C-66, Carbon Steel. Same design as No. 166 but drop forged from Carbon Steel. Satin finish. Range 3/8" to 1 7/8", 5 adjustments. Length 9".

LIST PRICE, each.....\$.85

Multigrip Junior No. 168

Unmatched as a general utility plier. Made in a convenient 7 1/2" length, it has the range of jaw opening to fit the popular sizes of S.A.E. nuts. Replaces the conventional type pliers.

No. 168, 4 adjustments. Range 0" to 3/4". Length 7 1/2". Weight 4 1/2 ozs.

LIST PRICE, each.....\$1.60

Multigrip Midget Pliers

Little giants of capacity and utility. Only 4 1/2" long, yet strong and thin enough to reach the smallest, most awkwardly placed nuts on motor, distributor, generator, magneto, dash panel, radio, switchboard—in fact all elusive nuts.

No. 167, 4 adjustments. Range 0" to 7/16". Length 4 1/2". Weight 2 ozs.

LIST PRICE, each.....\$1.35

No. 167 1/2, 4 adjustments. Range 0" to 7/16". Length 4 3/4". Weight 2 ozs.

LIST PRICE, each.....\$1.40

Multigrip Plier Set No. M-3

One each Nos. 167, 168 and 166 1/2.

LIST PRICE, complete in leatherette case. \$4.95

Service Station Utility Kit No. M-4

This 3-pocket genuine cowhide leather holster carries pliers Nos. 168; No. 310, 2" blade Screw Driver and No. 312, 3" blade Driver with insulated handle—the most necessary tools around any service station. Holster is designed with slits to slip through the operator's belt.

LIST PRICE, complete in leather holster.....\$4.95

Van-Chrome Battery Service Tools

Approved by Battery Experts

Drop Forged and Heat Treated

Battery Terminal Lifter and Scraper No. 177

Drop Forged from Chrome Vanadium Steel

Battery experts acclaim the patented battery terminal lifter and scraper No. 177 the most efficient for removing terminals and cleaning the connections. Under its powerful leverage, badly frozen or corroded battery terminals snap up easily without marring, cracking, or loosening the plates or injuring the tops of the cells. A special release joint dismembers the plier, providing one section with a serrated nose for cleaning terminals and the other with sharp jaws for scraping posts.

Chrome plated with bright polished heads. Length $10\frac{1}{2}$ ". Weight $13\frac{1}{2}$ ozs. 6 to box.

LIST PRICE, each.....\$2.90

Battery Plier No. 179

Drop Forged from Chrome Alloy Steel

This outstanding battery plier of original Herbrand design provides more speed, ease and efficiency. The gripping jaws are serrated to take positive hold of battery terminal nuts even though badly corroded or mutilated. The special 30° angle heads make all terminal nuts easily accessible regardless of position of the battery. The nose is tapered both sides to clear filler caps. The long handles are shaped to fit the natural grip of the hand.

Chrome plated with head polished. Range $\frac{5}{32}$ " to 1". Length 8". Weight 7 ozs.

LIST PRICE, each.....\$1.70

Battery Plier No. C-79

Drop Forged from Carbon Steel

Drop forged from Carbon Steel. Satin finish.

LIST PRICE, each.....\$.85

Battery and Starter Nut Wrench No. 276

Drop Forged from Select Tool Steel

The 12-point openings $\frac{9}{16}$ " and $\frac{5}{8}$ " are machined in specially designed heads. One end for the starter nut, the other end is extra thin to firmly grip the terminal nut. Satin nickel, heads polished. Length 6". Weight $2\frac{1}{2}$ ozs.

LIST PRICE, each.....\$.75

Battery Service Set No. B-3

Comprises the popular patented Battery Terminal Lifter and Scraper No. 177, the No. 179 Battery Plier and No. 276 Battery Wrench.

LIST PRICE, complete in leatherette roll..\$5.35

See page 123 for Ford V8 Battery Hold-Down Wrench



No. 179



No. 276



Lifting Battery Terminal



Dismembered for Cleaning



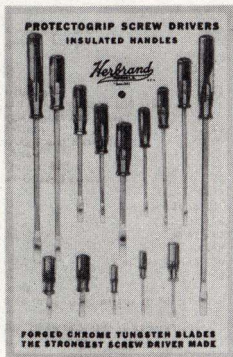
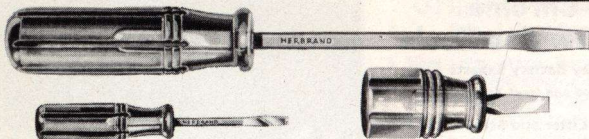
Scraping Terminal Post



Set No. B-3



No. 177



Typical Display Board

Van-Chrome Protectogrip Screw Drivers

Insulated Handles—Cross Forged Blades

Chrome Tungsten Steel Blades—Genuine Pyralin Breakproof Handles

Catalog No.	Length of Blade	Size Square Stock	Overall Length	Weight Per Doz. Lbs. Ozs.	List Price Each
*309	5/8	1/8	8 3/8	1 8	\$1.05
310	2	1/8	4 1/2	.. 9	.50
311	3	1/8	5 1/2	.. 12	.55
311A	6	1/8	8 1/2	.. 12	.75
312	3	3/16	6 1/4	1 10	.80
313	6	3/16	9 1/4	2 4	.95
314	9	3/16	12 1/4	2 4	1.00
315	1 1/4	1/4	3 1/2	2 ..	1.00
315A	4	1/4	8	2 8	1.20
316	6	1/4	10	3 6	1.35
317	10	1/4	14	4 2	1.55
318	1 1/4	3/16	3 1/2	2 ..	1.20
319	7	3/16	11	4 8	1.65
320	12	3/16	16 1/4	7 ..	1.80
321	6	3/8	10 1/4	6 ..	2.05
322	12	3/8	18 1/2	10 8	2.60
323	16	3/8	22 1/2	12 ..	2.80

*Special Non-Conducting Screw Driver with 8" shockproof pyralin handle. See page 88. Packed six to the box. Numbers 310 and 311 are equipped with a pocket clip.

The transparent amber handles of the Herbrand Protectogrip Screw Drivers are perfect insulators against electricity and will stand eight thousand volts or more. They are just the right size to fit snugly into the palm of the hand and are designed to prevent slipping even in greasy hands. Protectogrip handles are machined from bars of pyralin which are carefully cured to provide indestructible qualities.

The solid one piece blades are cross-forged from special analysis Chrome Tungsten Steel and this special Herbrand forging process not only strengthens them but enhances their appearance. The tips are accurately sized to standard gauges, insuring a positive non-slip fit in screw slots. Only square stock is used in Protectogrip Drivers.

The X-ray illustrations above show how the shanks of the blades extend far into the handles to prevent any possibility of turning or becoming loose. The blades are heat treated to give maximum service and resiliency and will twist off the head of any screw they are made to fit. The Protectogrip is the toughest, strongest screw driver ever offered the automotive trade, and will stand surprising abuse and long wear. Blades are satin nickel plated and the tips are polished bright.

Display Board No. SD-17

carries 3 each of 17 screw drivers listed in the table. Total of 51 screw drivers. Size of board 15" x 28". Weight 26 lbs. Board gratis.

LIST PRICE, complete....\$68.40

To conserve the mechanic's time and keep readily available the popular sizes of screw drivers used most frequently, Herbrand provides carefully selected assortments of the most sturdy and highest quality screw drivers in the industry.

Set No. SD-5

For electrical, ignition and radio service. Carries five slim, narrow shank drivers $\frac{1}{8}$ " and $\frac{3}{16}$ " square stock, with variation in blade lengths from 2" to 9".

Set No. SD-6

A well balanced assortment of five Drivers which are in daily need. Contains Nos. 310 and 312 for electrical and ignition work; No. 315, stubby type; Nos. 316 and 319 for general utility.

Set No. SD-7

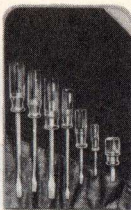
A general service assortment of seven Protectogrip Drivers that fill an all purpose need. Includes Nos. 310, 312 and 313 for electrical and delicate adjusting work; the short, stubby driver No. 315; Nos. 316 and 319 for general purposes; the Heavy Duty Driver No. 321.

Set No. SD-8

A new assortment of Screw Drivers with small, square shanks which are particularly adapted to work on ignition, radio, electrical appliances and all tricky, delicate adjustments. Contains No. 309 Non-conducting Driver with 8" Pyralin Handle; No. 311A Extra Long $\frac{1}{8}$ " Blade Screw Driver; No. 310, 311, 312, 313, 314 and 315 Protectogrips with Chrome Tungsten Square blades and Shockproof handles.



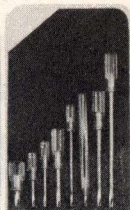
Set No. SD-5



Set No. SD-7



Set No. SD-6



Set No. SD-8

Van-Chrome Protectogrip Screw Driver Sets

SET No. SD-5 contains 1 each of Nos. 310, 311, 312, 313, 314. Weight 11 ozs.

LIST PRICE, in pocket leatherette case.....\$4.30

SET No. SD-6 contains 1 each of Nos. 310, 312, 315, 316, 319. Weight 1 lb. 2 ozs.

LIST PRICE, in pocket leatherette roll..... 5.80

SET No. SD-7 contains 1 each of Nos. 310, 312, 313, 315, 316, 319 and 321. Weight 1 lb. 12 ozs.

LIST PRICE, in pocket leatherette roll..... 8.90

SET No. SD-8 contains 1 each of Nos. 309 (illustrated on page 88) 310, 311, 311A, 312, 313, 314 and 315. Weight 16 ozs.

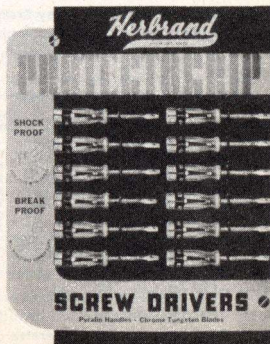
LIST PRICE, in pocket leatherette kit..... 7.10

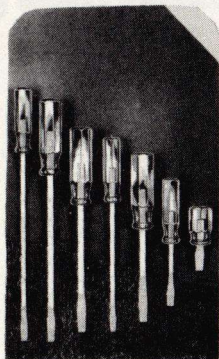
Protectogrip Driver Display No. SD-12

The extra quality of these Protectogrip Screw Drivers is emphasized by this sales making display card. It holds 12 No. 310 Mid-get Screw Drivers and is die cut so the light X-rays the handles showing how deeply the blades are imbedded. Easel back.

Size $10\frac{1}{2}$ " x $13\frac{1}{4}$ ".

LIST PRICE, with 12
No. 310 Screw Drivers
Complete\$6.00





Set No. D-7

Van-Chrome OctaGrip Screw Drivers

Insulated Handles—Octagon Grip

Square Blades Forged from Chrome Alloy Steel

Only square stock, Chrome Alloy Steel of special analysis is used in forging the true temper blades, which are hardened to just the right degree to take the abuse to which screw drivers are normally subjected.

A brand new line of Quality Screw Drivers with genuine pyralin, shock proof, octagon handles and forged Chrome Alloy Steel blades with square shanks. Possessing all the fine qualities which made Herbrand Protecto-grips famous, they are sold at exceptionally low prices.

The handles are machined from bars of transparent amber pyralin and are break-proof, shock-proof and insulators which will withstand eight thousand volts.

The blades are driven deeply into the handles and firmly wedged making it impossible for them to work loose. Blade tips are carefully ground to accurate sizes and individually bench tested.

Finished in triple satin rust-resisting nickel plate.

Catalog No.	Length of Blade	Size Square Stock	Overall Length	Weight Per Doz. Lbs. Ozs.	List Price Each
D-12	3	3/16	6 1/4	1 2	\$.65
D-13	6	3/16	9	1 8	.75
D-14	9	3/16	12	1 14	.85
D-15	1	1/4	3	1 2	.75
D-16	4	1/4	7 1/2	2 10	1.00
D-17	5 1/2	1/4	9 1/2	3 ..	1.05
D-18	8	1/4	11 1/2	3 6	1.10

Packed 6 to the box

SET No. D-7 contains 1 each of the seven drivers listed in the above table. Weight 1 lb. 7 ozs.

LIST PRICE, in fibre box.....\$6.15

LIST PRICE, in pocket leatherette case..... 6.75

OctaGrip

Screw Driver Set No. D-7

These Octagon Handle Drivers are supplied in the seven sizes which have been proved most practical and useful for general all-around service. Set No. D-7 contains one each of the seven Drivers listed in the table.

Herbrand
TRADE MARK
KING OF CHINA



Wood Handle Screw Drivers

Smoothly Turned Handles—Cross Forged Blades

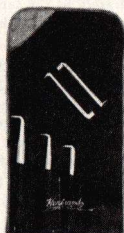
Blades Forged from Chrome Tungsten Tool Steel

These screw drivers are the best balanced and strongest wood handled screw drivers made. The blades are carefully drop forged from Chrome Tungsten Alloy Steel of special analysis and are heat treated throughout to provide utmost strength and resiliency. The tips are hand ground to precision gauges to insure a positive fit in the screw slots.

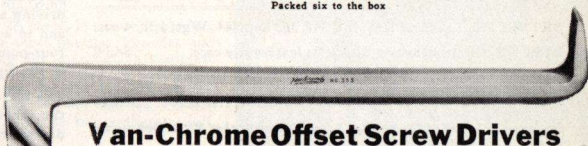
The square stock of Tungsten Steel is firmly imbedded in the handle and securely bound in with a heavy steel ferrule. The handles are turned from clear, selected birch with white shellac finish and shaped to fit the hand for maximum driving power. Blades finished in satin nickel.

Catalog No.	Length of Blade	Size Square Stock	Overall Length	Weight Per Doz. Lbs. Ozs.	List Price Each
330	3	3/16	7 1/4	1 8	\$.50
331	6	3/16	10 1/4	1 8	.60
332	9	3/16	13 1/4	1 14	.65
333	11 1/4	1/4	15 1/4	1 6	.50
334	6	1/4	11 1/4	3 ..	.70
335	10	1/4	15 1/4	4 ..	.85
336	6 1/4	3/16	12 1/2	4 8	.90
337	12	3/16	17 1/2	6 3	1.00
338	6	3/8	12 1/2	6 6	1.00
339	12	3/8	18 1/4	9 6	1.20
340	16	3/8	22 1/4	10 14	1.30

Packed six to the box



Set No. 350



Van-Chrome Offset Screw Drivers

Nickel Plated With Polished Blades

Hand Forged from Octagon Chrome Tungsten Steel

The bits are set at right angles to each other with the exception of No. 352 which has the blades forged at a 45° angle. The special pitch of No. 352 engages screws that may be turned to awkward positions and not accessible with other types.

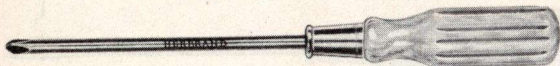
Catalog No.	Size Stock	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
351	1/4	4 1/4	.. 12	\$.80
352-45°	1/4	4 1/4	2 12	.80
353	3/16	5 1/2	2 4	.85
354	3/8	6 1/2	3 ..	.90
355	1/2	7 1/2	5 4	1.05

Packed six to the box

Offset Screw Drivers must necessarily work in very confined places, where the manipulation of a straight driver is impossible. The bits of "Van-Chrome" Offset Screw Drivers are accurately gauged and the heads are angled to slip into the screw slots readily with grips designed to provide the required leverage for easy turning without mutilating screw heads and injuring knuckles.

SET No. 350 Comprises one each of the above five sizes, in attractive leatherette, flannel lined, tool roll. Weight 1 lb.

LIST PRICE, complete.....\$4.65



Phillips Screw Drivers

For Four-Point Recessed Heads—Self-Centering

These Drivers cannot slip, break off screw heads nor cause damage to rich upholstery fabrics, fine beaded mouldings and highly finished accessories.

High quality hardwood varnished handles with polished Chrome Alloy Steel blades and nickel plated ferrules. 6 to the box.

Catalog No.	Fits Phillips Screws	Length Of Blade	Overall Length	Weight Per Doz. Lbs. Ozs.	List Price Each
358	#4 & smaller	1	3	12	\$.60
359	#5 to 9	1½	3½	8	.70
361	#4 & smaller	3	6¼	1	.70
362	#5 to 9 inc.	4	8½	2	.70
363	#10 to 16 inc.	6	11	3	.85
364	#18 & larger	8	14½	6	1.20

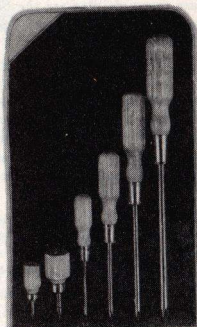
SET No. 360, 1 each of Nos. 361, 362, 363 and 364. Wgt. 1 lb. 4 ozs.

LIST PRICE, in fibre box, \$3.45; in leatherette case.....\$4.00

SET No. 360½, 1 each of the 6 above Drivers. Weight 1 lb. 6 ozs.

LIST PRICE, in fibre box, \$4.75; in leatherette case.....\$5.45

See pages 8, 10 and 14 for Phillips Screw Driver Socket Bit Attachments



Set No. 360½

Specially designed for faster driving and better holding power and to accurately fit the tapered four-point recesses in the heads of Phillips screws and bolts.

The bits center automatically in the screw heads and very little downward pressure is required to hold them firmly in place because the four-point contact produces three times the driving force of the conventional type.

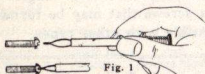
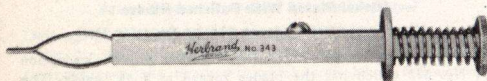


Fig. 1

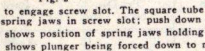


Fig. 2

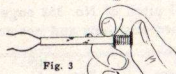


Fig. 3

Fig. 1 to engage screw slot. The square tube only is held—the plunger left entirely free; place spring jaws in screw slot; push down on square tube.
Fig. 2 shows position of spring jaws holding screw after being forced into screw slot.
Fig. 3 shows plunger being forced down to release screw, also position for pick-up tool.

Screw Starter & Pick-Up Tools

Capacity for All Screws—Tempered Steel Spring Jaws

Available in two lengths. Satin nickel finish. 6 to the box.

No. 343. Length 4". Weight 1 oz. LIST PRICE, each.....\$1.00

No. 344. Length 6". Weight 1½ ozs. LIST PRICE, each..... 1.25

Unexcelled for firmly holding, starting and setting up screws of any size in confined or invisible places. It is also a convenient pick-up tool for retrieving small parts in hard-to-get-at spots. Invaluable for radio, automotive, typewriter, adding machine, electrical, telephone and household appliances and unmatched for speedometer, ignition and dash panel work.

Van-Chrome Punch and Chisel Sets

Chrome Alloy Steel

Carefully forged from octagon steel and designed for perfect balance, each Van-Chrome Punch and Chisel is branded with the Herbrand mark of distinction which is your guarantee of quality and service. Finished in rust-resisting satin nickel with blades polished.

Set No. C-3

Contains 1 each of Cold Chisels Nos. 402, 403 and 404 in flannel lined leatherette roll. Weight 1 lb. 4 ozs.
LIST PRICE.....\$2.40

Set No. C-5

Contains 1 each of Flat Chisels Nos. 402, 403, 404, 405 and 406 in lined leatherette roll. Weight 3 lbs. 11 ozs.
LIST PRICE.....\$5.55

Set No. C-6

Contains 1 each of Chisels Nos. 401, 410, 420, 430 and No. 471 Center Punch described on pages 82 and 83, in leatherette roll. Weight 11 ozs.
LIST PRICE.....\$3.10

Set No. C-10

This Combination Punch and Chisel Assortment contains 1 each of assorted Punches Nos. 440, 441, 450, 470 and Flat Cold Chisel No. 400 in flannel lined leatherette roll. Weight 9 ozs.
LIST PRICE.....\$2.65

Set No. C-15

Super Punch and Chisel Set No. C-15 is a well balanced assortment of 15 of the most popular Punches and Cutting Tools, affording the mechanic a complete well rounded, all service set. It contains 1 each assorted Chisels Nos. 401, 402, 403, 410, 412, 421 and 431. Assorted Punches Nos. 443, 444, 445, 446, 451, 452, 453 and 471, listed on pages 82 and 83, in a leatherette roll. Weight 3 lbs. 9 ozs.
LIST PRICE.....\$10.30

Punch and Chisel Display and Dispenser CB-129

To make it easier for you to sell more Quality Punches and Chisels this handy wooden dispenser is supplied gratis with the assortment illustrated and listed.

Contains 3 each of 43 popular types and sizes: Flat Cold Chisels Nos. 400 to 406; Cape Chisels 410 to 412; Gouge Chisels 420 and 421; Body Cutting Chisels 425 to 427; Diamond Point Chisels 430 and 431; Extra Long Chisels 405½ and 407; Long Reach Chisels 415 to 418; Pin Punches Nos. 440 to 447; Taper Punches 450 to 453; Drift Punches 460 to 462; Center Punches 470 and 471; Long Aligning Punches 463 to 465. For individual listing see pages 82 and 83.

Total of 129 Tools. Size of Dispenser 24" wide x 8¾" deep x 12" high. Weight 67½ lbs.

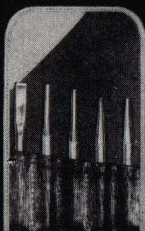
LIST PRICE, complete.....\$120.00



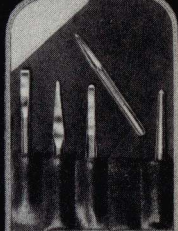
Set No. C-3



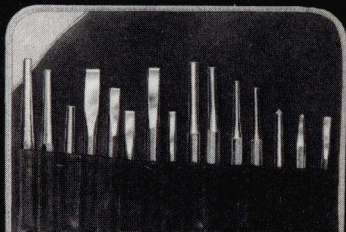
Set No. C-5



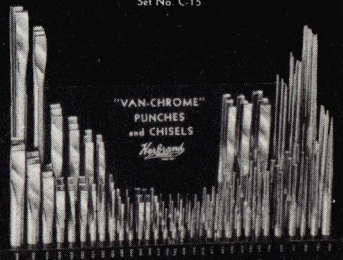
Set No. C-10



Set No. C-6



Set No. C-15



Display & Dispenser No. CB-129

Van-Chrome Punches Aligning and Pry Bars

Drop Forged from Chrome Alloy Steel

Constructed for strenuous driving, piercing and marking purposes—will retain their points permanently. Forged from the toughest Chrome Alloy Steel and scientifically heat treated for utmost endurance. Nickel plated and polished.

Pin Punches

No.	Size Stock	Diameter of Point	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
440	$\frac{5}{16}$	$\frac{1}{8}$	$4\frac{1}{2}$	1 2	\$.45
441	$\frac{5}{16}$	$\frac{3}{32}$	$4\frac{1}{2}$	1 2	.45
442	$\frac{5}{16}$	$\frac{3}{32}$	$4\frac{1}{2}$	1 8	.55
443	$\frac{5}{16}$	$\frac{3}{32}$	$6\frac{1}{2}$	1 14	.60
444	$\frac{3}{8}$	$\frac{7}{32}$	$6\frac{1}{2}$	2 4	.65
445	$\frac{3}{8}$	$\frac{7}{32}$	7	2 4	.70
446	$\frac{1}{2}$	$\frac{5}{16}$	$7\frac{1}{2}$	4 8	.80

Solid Taper Punches

No.	Size Stock	Diam. of Point	Taper	Length	Wt. Doz. Lbs. Ozs.	List Price Each
450	$\frac{5}{16}$	$\frac{1}{16}$	2	$4\frac{1}{2}$	1 2	.45
451	$\frac{3}{8}$	$\frac{3}{16}$	$2\frac{1}{2}$	5	1 14	.60
452	$\frac{1}{2}$	$\frac{1}{4}$	$3\frac{1}{4}$	6	3 12	.80
453	$\frac{5}{8}$	$\frac{5}{16}$	$3\frac{1}{2}$	7	6	1.00

Long Taper Drift Punches

460	$\frac{3}{8}$	$\frac{1}{8}$	$3\frac{1}{2}$	8	2 4	.70
461	$\frac{1}{2}$	$\frac{3}{32}$	$5\frac{1}{2}$	9	4 8	.95
462	$\frac{5}{8}$	$\frac{1}{4}$	$5\frac{3}{4}$	11	9	1.25

Center Punches

470	$\frac{5}{16}$	$\frac{1}{8}$	2	$4\frac{1}{2}$	1 2	.45
471	$\frac{3}{8}$	$\frac{7}{32}$	$2\frac{1}{2}$	5	1 14	.60

Extra Long Aligning Punches

The extra long, gradual taper make them perfect for lining up holes on body and fender work, frames, motors and all precision assembling.

463	$\frac{3}{8}$	$\frac{3}{16}$	6	12	3 12	\$1.50
464	$\frac{1}{2}$	$\frac{7}{32}$	$6\frac{1}{2}$	14	7 8	1.70
465	$\frac{5}{8}$	$\frac{1}{4}$	$7\frac{1}{2}$	16	12 12	1.95

SET No. C-9, 1 each of Nos. 463, 464, 465. Weight 2 lbs.

LIST PRICE, in leatherette roll.....\$5.65

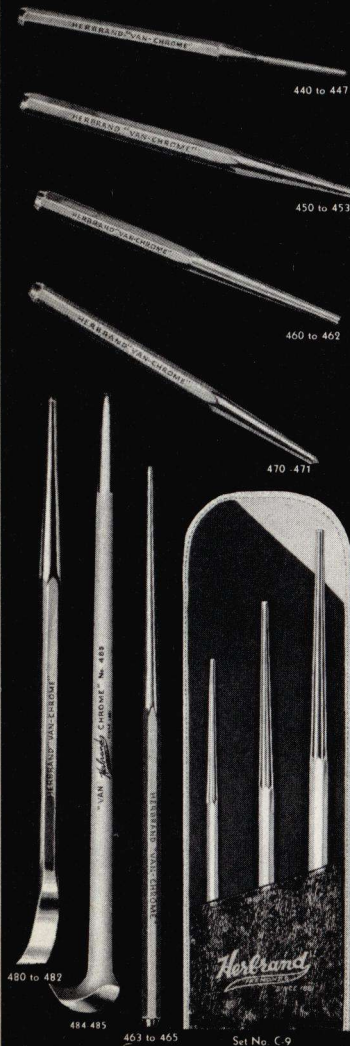
Van-Chrome Jimmy Bars

480	$\frac{1}{2}$	$\frac{1}{8}$	$4\frac{1}{2}$	12	6 12	\$1.25
481	$\frac{5}{8}$	$\frac{3}{8}$	$5\frac{1}{2}$	16	13 8	1.95
482	$\frac{3}{4}$	$\frac{1}{4}$	$6\frac{3}{4}$	20	24 12	2.70

Multiuse Pry Bars

A powerful leverage bar for all kinds of prying and pulling work with a range of application that is unequalled. The rolled head with the thin pry hook lifts grease retainers, gears, bearings, ball races and the like. The pointed tang on the opposite end is very effective for lining up bolt holes.

485	$\frac{9}{16}$	$\frac{1}{4}$	7	16	12	\$2.10
484	$\frac{3}{4}$	$\frac{5}{16}$	$8\frac{1}{2}$	18	18	2.90



Set No. C-9

Van-Chrome Chisels and Rivet Busters

Drop Forged from Chrome Tungsten Steel

Forged from the best steel adaptable to these tools and individually tempered with perfectly timed electrically controlled heat treatment. The cutting edges are bevelled at the correct angle to remain sharp under extreme abuse. They are so finely tempered that they may be redressed with a file yet stand up under the hardest usage. Satin nickel with polished blades.

Flat Cold Chisels

No.	Size Stock	Width of Edge	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
400	5/16	5/16	5	1 2	\$.55
401	5/16	3/8	5	1 8	.55
402	3/8	1/2	6	2 4	.60
403	1/2	5/8	6	4 8	.70
404	5/8	3/4	7	6 12	.90
405	3/4	7/8	8	10 8	1.35
406	7/8	1	9	18	1.70

Cape Chisels

410	5/16	3/32	5	1 2	.55
411	3/8	5/16	6	2 4	.60
412	1/2	3/8	6	4 2	.70

Gouge Chisels

420	5/16	3/32	5	1 2	.55
421	3/8	1/4	6	2 4	.60

Diamond Point Chisels

430	5/16	5/16	5	1 2	.55
431	3/8	1/8	6	2 4	.60

Long-Reach Chisels

The thin, long-reach blade is forged flat half the length of the Chisel for easy access in close quarters. The curved bevel of the cutting edge increases cutting speed without wedging. These Chisels may be sharpened many times by redressing with a file.

No.	Size Stock	Width of Blade	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
415	3/8	3/8	6 1/2	2	\$.70
416	1/2	1/2	7 2	3 8	.80
417	5/8	5/8	8	6 10	1.10
418	3/4	3/4	9	10 3	1.65

SET No. C-7, 1 each of above. Weight 1 lb. 15 ozs.

LIST PRICE, in leatherette roll\$4.75

Extra Long Flat Chisels

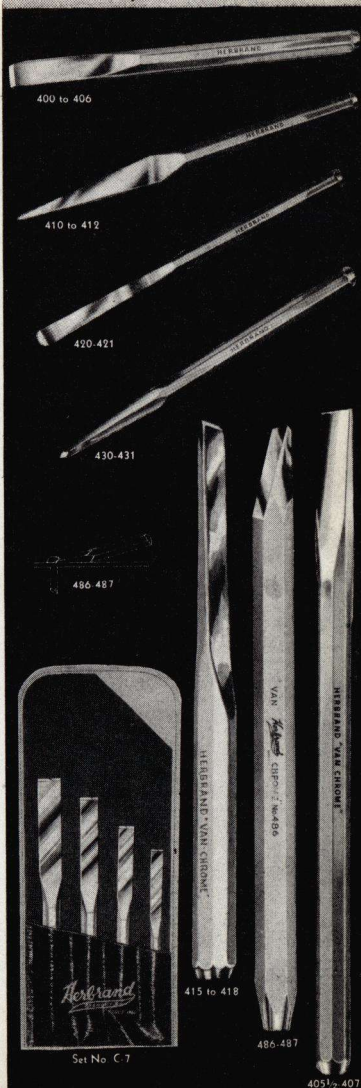
405 1/2	3/4	3/8	16	24	\$2.05
407	7/8	1	18	36	2.50

Rivet Shearing Chisels

The sharp nose on the cutting end of these Chisels is pitched at an angle that provides ample clearance for the hands. The keen cutting edges are ground to an angle that gets under the rivet heads and the full force of the blow is exerted on the shear blades, cutting the rivets off cleanly and quickly. Nickel plated.

486	3/4	7/8	10	19	\$2.30
487	3/4	7/8	14	24	2.65

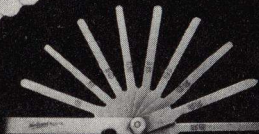
See page 40 for Body Cutting Chisels



Herbrand
PATENT SWEDEN



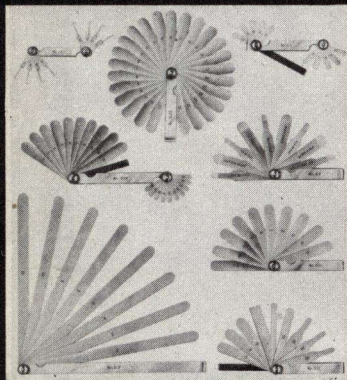
No. G-20



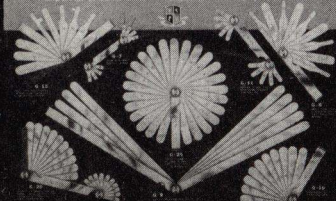
No. G-14



Extra Blades G-.0015 to G-.035



Van-Chrome™ FEELER GAUGES - Herbrand
Imported Swedish Steel - Tested for Accuracy and Temper



Display Card No. G-1

Van-Chrome Feeler Gauges

Tested for Accuracy and Temper

Imported Swedish Steel

For dependable accuracy feeler gauges must be made from the finest grade materials, properly hardened and tempered. "Van-Chrome" Thickness Gauges are made with the greatest precision from the finest grade of imported Swedish Steel, scientifically hardened and tempered to withstand wear. Each blade is tested to insure the exact thickness to a minute degree.

All Herbrand Thickness Gauges are equipped with knurled locknuts which release the blades instantly for rapid selection of size desired, and when tightened lock the individual blade into the working position, retaining the blades not in use firmly in the handle. The sizes are permanently etched on each blade.

Types and Sizes

No. G-7 Spark Plug Wire Gauge, the latest development for accurate spark plug gap spacing. 8 wire gauges $1\frac{1}{4}$ " long:—.022; .025; .027; .028; .030; .032; .035; .040. Ends of wires are turned at 90° to set electrodes recessed below the shell.

LIST PRICE, each.....\$1.65

No. G-8, Special Ford Gauge for all models. 9 sizes, with Go-No-Go feature $3\frac{1}{4}$ " long:—.013 valve; .014 distributor; .016 distributor; .017 valve; .022 distributor; .022 valve; .025 plug; .035 plug.

LIST PRICE, each.....\$1.65

No. G-9, Extra Long Feeler Gauge for pistons, etc. 8 sizes, 9" long:—.002; .003; .004; .005; .006; .008; .010; .015.

LIST PRICE, each.....\$2.50

No. G-10, Standard Feeler Gauge containing 10 sizes $3\frac{3}{4}$ " long:—.002; .003; .004; .005; .006; .007; .008; .010; .012; .015.

LIST PRICE, each.....\$1.25

No. G-11, Ignition Gauge, short narrow blades for ignition, distributor points and spark plugs; 10 sizes $1\frac{1}{2}$ " long and 3" point file:—.012; .013; .014; .018; .020; .022; .025; .028; .032; .035.

LIST PRICE, each.....\$1.65

No. G-12, Special Chevrolet Gauge for valves and ignition; 7 blades $3\frac{1}{4}$ " long and point file, 3" rule and float level gauge:—.006; .008; .013; .018; .024; .032; .040.

LIST PRICE, each.....\$1.65

No. G-14, Brake Adjusting Gauge for correct clearance between brake and shoe. 9 sizes 4" long:—.006; .008; .010; .012; .015; .018; .020; .022; .032.

LIST PRICE, each.....\$1.65

No. G-20, General Purpose Gauge for tappet, and ignition work—most universal gauge on the market; 10 blades $1\frac{1}{2}$ " long, 10 blades $3\frac{3}{4}$ " long and 3" point file—short blades, .012; .013; .014; .018; .020; .022; .024; .025; .028; .032—Long blades:—.002; .003; .004; .005; .006; .007; .008; .010; .013; .015.

LIST PRICE, each.....\$2.50

No. G-25, Universal Master Gauge with a full range of spacers; 25 blades $3\frac{3}{4}$ " long:—.0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032; .035.

LIST PRICE, each.....\$3.30

Extra Blades for Replacement

Available in the popular range of thicknesses, size $\frac{1}{2}$ " x $3\frac{1}{2}$ " with hole for insertion in gauges. Fit most any holder—sizes etched on blades:

G-.0015; G-.002; G-.004; G-.006; G-.008; G-.013; G-.015; G-.018; G-.024; G-.025; G-.032; G-.035. 6 to the envelope.

LIST PRICE, per package of 6.....\$.90

Display Card No. G-1

Set up on your counter, or hung on your wall, this Sales-Making Display will more than double your business on Thickness Gauges. It is a photographic reproduction, size 14" x 20", and is supplied gratis.

Feeler Gauge Stock Holders

Double and Single End

Positive Adjustable Lock

Any thickness of feeler gauge stock coils easily within the handles and pulls out readily for use. Either 12" standard blades, or any desired length of strip stock may be used. Blades are held securely by the positive sliding lock. Made from hard drawn, cold rolled steel and satin nickel plated.

No. G-30, Single End Holder, Length 4½". Weight 1 oz.

LIST PRICE, each \$.40

No. G-31, Double End Holder, Length 10". Weight 3 ozs.

LIST PRICE, each \$.70

12" Feeler Gauge Blades

Hardened and Polished Swedish Steel

Available in the twelve popular sizes from .0015 to .035 in standard 12" lengths ½" wide. The Stock Holders listed above make them usable down to the last scrap by snipping off worn ends.

The number indicates the thickness of the stock: GB-0015; GB-002; GB-004; GB-006; GB-008; GB-013; GB-015; GB-018; GB-024; GB-025; GB-032; GB-035.

Packed 6 to the cellophane envelope. Weight 1 oz.

LIST PRICE, per package of 6 \$2.40

Feeler Gauge Strip Stock

10 Ft. Rolls in Slotted Metal Boxes

Genuine imported Swedish Steel of guaranteed accuracy. Blade thicknesses are plainly etched with foot markings to facilitate dispensing any required length. The slotted metal boxes are supplied gratis.

No.	Size	List Price per 10 ft. Roll	No.	Size	List Price per 10 ft. Roll
GS-0015	.0015	\$4.00	GS-007	.007	\$2.00
GS-002	.002	3.30	GS-008	.008	2.00
GS-003	.003	2.60	GS-009	.009	2.00
GS-004	.004	2.30	GS-010	.010	2.00
GS-005	.005	2.00	GS-012	.012	2.00
GS-006	.006	2.00	GS-013	.013	2.00

Feeler Gauge Stock Dispenser & Counter Display G-3

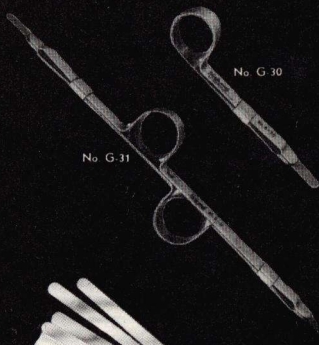
This sales-producer will create extra and continuous business, not only for individual Blades and Strips, but for complete combinations of Feeler Gauges.

Sturdily constructed of light weight plywood with two hinged panels that fold readily to fit any convenient spot on counter or wall. Equipped with metal shelves for storing extra blades, holders and strip stock where any item or size can be instantly reached. Occupies about one square foot on the counter, and, when fully opened to hang on wall, takes 18" x 24" space.

No. G-3 prominently displays the 9 complete and popular Feeler Gauges as listed on page 84. In addition, it carries the Single and Double End Stock Holders, Nos. G-30 and G-31; twelve 10 ft. rolls of Strip Stock in slotted metal containers, Nos. GS-0015 to GS-013, as listed above; six each of the twelve Individual Blades, 12" long, Nos. GB-0015 to GB-035, as listed on this page and six each of the twelve Separate Replacement Blades 3½" long, Nos. G-0015 to G-035, as listed in the table on page 84.

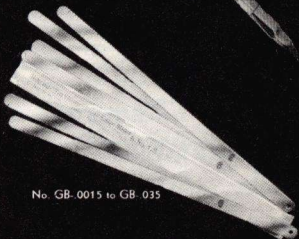
DISPENSER No. G-3. Height 18", two hinged wings 10½" wide that fold to occupy limited space. Weight 12 lbs.

LIST PRICE, complete \$83.00



No. G-31

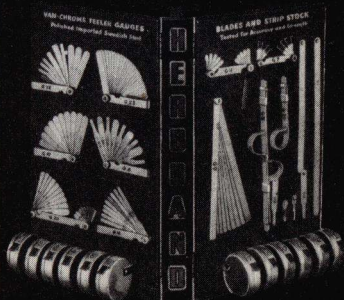
No. G-30



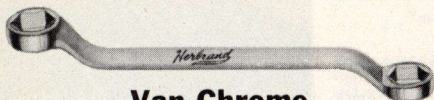
No. GB-0015 to GB-035



No. GS-0015 to GS-013



Stockholder Display No. G-3



Van-Chrome Midget Box Wrenches

For Electrical and Ignition Work

Drop Forged from Chrome Molybdenum Steel

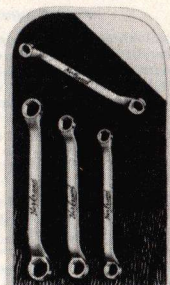
Modern Car Service requirements have created a definite need for the offset, Box Type Midget Wrenches because of the increasing inaccessibility and the short turning radius encountered when working on ignition systems, generators, carburetors, distributors, radios, electrical appliances, or for any other tiny nut adjustments. Herbrand Midgets are accurately broached with 6-point openings for perfect engagement of small nuts and both ends are offset for easy clearance of obstructions. Lengths are correct for perfect balance. Chrome plated, polished heads.

Wrench Number	Size Openings	Length	Weight per Doz. Ounces	List Price Each
71	$\frac{3}{16}$ & $\frac{13}{64}$	$2\frac{1}{8}$	3	\$.90
72	$\frac{7}{32}$ & $\frac{15}{64}$	$3\frac{1}{8}$	3	.90
73	$\frac{1}{4}$ & $\frac{9}{32}$	$3\frac{3}{8}$	6	.90
74	$\frac{5}{16}$ & $\frac{11}{32}$	$3\frac{3}{4}$	9	.90

Packed 6 to the box.

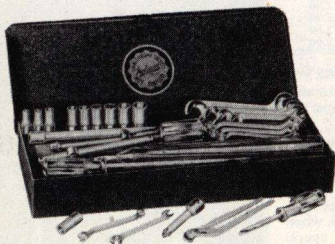
SET No. 70, containing one each of the above 4 wrenches.

LIST PRICE, in fibre box \$3.60; in leatherette roll\$4.00



Set No. 70

The 8 opening sizes incorporated in this set of four Midget Box Wrenches are necessary to handle the popular sizes of small nuts. This compact little set is put up in a flannel lined leatherette roll with an individual pocket for each tool.



Electrical and Ignition Tool Set No. MA-55 $\frac{1}{2}$

Most Complete for Work on Midget Nuts

SET No. MA-55 $\frac{1}{2}$, containing 27 special ignition tools, as listed at the right. Weight 3 lbs.

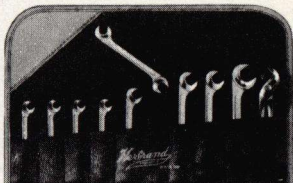
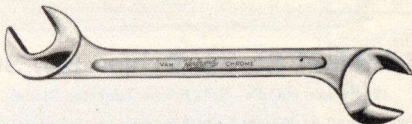
LIST PRICE, complete in metal box\$21.40

Not only will automotive mechanics appreciate this Complete Set of Midget Electrical Tools, but any repair man will find them equally indispensable for radios, typewriters, office machines, sewing machines, meter repairs, and any electrical appliances.

Contents, total of 27 tools:—10 Hot Forged $\frac{1}{4}$ " drive Sockets and Midget Handles and Attachments, listed on page 8. The 4 Midget Box Wrenches listed above. 5 Midget Open End Wrenches Nos. 81, 83, 85, 87 and 89 shown on page 87. No. 167 Electrical and Ignition Plier, see Page 74. 3 Shock Proof Handle Screw Drivers, No. 310 — 2" blade; No. 311A—6" blade and No. 309— $\frac{3}{4}$ " blade, listed on page 76.



Set No. 98



Set No. 99

Feather lightness with amazing strength marks "Van-Chrome" Electrical Wrenches as the handiest for tricky carburetor and ignition jobs. They have different openings on each end, yet each size is duplicated on a separate wrench at a different angle assuring accessibility to miniature nuts under all conditions. Ignition experts designed these wrenches for greater efficiency on magnetos, coils, ignition, distributors, ammeters or any small nuts such as radio and electrical appliances. These wrenches are *Drop Forged* and not cheap stampings. They are accurately machined like all "Van-Chrome" tools and heat treated throughout. Very useful and attractive with panelled handle design for easy handling. The special angled heads are those of proved efficiency for expert ignition and fine adjusting work and the lengths are ideal for reaching miniature nuts in cramped places.

Beautifully finished in triple satin nickel plate with the heads polished to mirror brightness.

Van-Chrome Electrical and Ignition Wrenches

15° and 60° Angle Heads

Drop Forged from Chrome Vanadium Steel

Wrench No.	Size Openings		Thickness Heads	Length	Weight Per Doz.		List Price Each
	15° Angle	60° Angle			Lbs.	Ozs.	
*81	1 3/64	1 5/64	7/64	3	2	4	\$.75
82	1 5/64	1 5/64	7/64	3	2	4	.75
83	1 7/32	1 7/32	7/64	3	2	4	.75
84	1 7/32	1 7/32	7/64	3	2	4	.75
85	1 7/32	1 1/16	7/64	3 1/2	4	8	.80
86	1 7/32	1 1/16	7/64	3 1/2	4	8	.80
87	1 7/32	1 1/16	7/64	4	9	..	.90
88	1 7/32	1 1/16	7/64	4	9	..	.90
89	1 7/16	1 1/2	1 1/64	4 1/2	13	8	1.00

*For Ford Ignition Models A and B

†Auto-Lite

Packed six to the box

SET No. 97 contains one each Nos. 81, 82, 83, 84, 85, 86, 87.

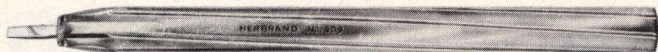
LIST PRICE, in flannel lined leatherette roll \$5.90

SET No. 99 contains one each of the nine wrenches in above table and the No. 167 Midget Plier illustrated on page 74.

LIST PRICE, in flannel lined leatherette case \$9.25

SET No. 98 contains one each of Wrenches Nos. 81, 83, 85, 87 and 89. Ignition Plier No. 167. Ignition Screw Driver No. 310 and Ignition Feeler Gauge with 10 short narrow blades and point file, No. G-11. Weight 6 oz.

LIST PRICE, in flannel lined leatherette case \$8.10



Electrical Screw Driver No. 309

8" Pyralin Handle— $\frac{1}{8}$ " Chrome Tungsten Blade

Length overall 9". Weight 2 ozs. 6 to box. Polished nickel blade.

LIST PRICE, each\$1.05



311A Long Blade Screw Driver

Pyralin Handle—Chrome Tungsten Blade $\frac{1}{8}$ " Square Stock

Length overall 8 $\frac{1}{4}$ ". Weight 1 oz. 6 to the box. Nickel blade.

LIST PRICE, each\$.75

Built for under-the-dash service, the 8" shock proof handle definitely eliminates short circuits and blowing fuses. Unusually handy for radios, switchboards, appliances and electrical work.

Where a long, thin reach is required this driver has no equal. It has a shock proof pyralin handle 2 $\frac{1}{4}$ " x $\frac{3}{16}$ " and a forged blade 6" long with a thin tapered bit.

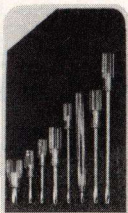
Electrical Screw Driver Sets

Insulated Handles

Chrome Tungsten Blades



Set No. SD-5



Set No. SD-8

SET No. SD-5, containing one each of Protectogrip Electrical Screw Drivers Nos. 310, 2" blade; 311, 3" blade; 312, 3" blade; 313, 6" blade and 314, 9" blade. Weight 11 ozs.

LIST PRICE, in flannel lined leatherette kit\$4.30

Set No. SD-8 comprises 8 Insulated Handle Screw Drivers with small, square shanks which are especially efficient for work on ignition, radio, switchboards, electrical appliances and all tricky, delicate adjustments. Contains No. 309 Non-conducting Driver; No. 311A Extra Long $\frac{1}{8}$ " Blade Screw Driver; Nos. 310, 2" x $\frac{1}{8}$ " blade; 311, 3" x $\frac{1}{8}$ "; 312, 3" x $\frac{3}{16}$ "; 313, 6" x $\frac{3}{16}$ "; 314, 9" x $\frac{3}{16}$ " and 315, 1 $\frac{1}{4}$ " x $\frac{1}{4}$ " blade.

LIST PRICE, in kit\$7.10

Ignition Point Files

For Platinum and Tungsten Contact Points

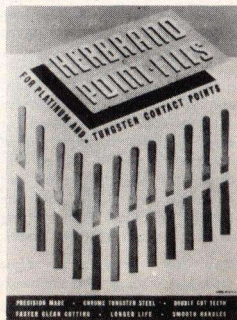
The fine double-cut teeth of these tempered Chrome Tungsten Steel Files produce a perfect contact because they are clean, fast cutting and get down between the points. A mechanic's precision tool of highest quality that will outwear numerous cheaper files. Smooth handles shaped for finger tip control.

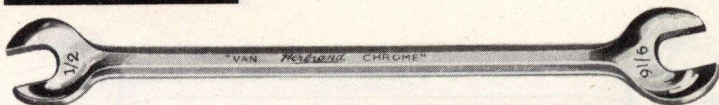
Supplied on an attractive counter card which holds 12 files. Size of card 9" x 12". Length of File 5". Weight per dozen 3 $\frac{1}{2}$ ozs.

No. F-5, card of twelveLIST PRICE, card gratis\$2.00

Refer to page 76 for listing of Screw Drivers in Sets Illustrated

See page 74 for Electrical and Ignition Pliers





The masterful design and efficiency of the New Master Tappet Wrenches is the result of constant study and research in cooperation with mechanics in actual shop practice. The 9 1/2 inch length of all these wrenches is recommended by engineers as the proper length for general all-around tappet adjusting work. Thin and narrow pear-shaped heads of carefully gauged thickness are scientifically balanced with the tappet nuts for speedy action, the greatest degree of accuracy, and to avoid overlapping. The 15° angle opening has proved to be the best pitch under most conditions. Openings are precision machined to the correct depth to firmly grip the tappet nuts and permit the maximum turning radius without interference from the motor block.

These New Ultra Modern Tappet Wrenches are revolutionary in design and construction and have been painstakingly engineered to help mechanics do a superior type of work in less time and effort.

The bar design of the paneled handles not only strikes a note of beauty but has been so scientifically blended into the heads of the wrench that extra strength and rigidity, so much desired by mechanics, is actually imparted to the wrench without clumsiness.

Perfectly balanced, these Master Tappet Wrenches handle with the ease of the most delicate instruments yet have enduring strength and facility because they are drop forged from Chrome Vanadium Steel and heat treated to exacting standards. Chrome plated with heads polished bright.



Set No. T-80

New Van-Chrome Master Tappet Wrenches

Bar Design for Rigid Strength—9 1/2" Long

Drop Forged from Chrome Vanadium Steel

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap. Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	L'gth	Weight Per Doz. Lbs. Ozs.	List Price Each
T-21	7/16 & 1/2	---	3/4	3/4 & 5/16	1 1/4	9 1/2	2 4	\$.90
T-22	1/2 & 9/16	3/4	---	5/16 & 3/8	3/4	9 1/2	3	1.10
T-23	5/8 & 1 1/16	---	3/8	7/16 & ---	1 3/4	9 1/2	3 12	1.25
T-24	3/4 & 7/8	---	1/2	1/2 & 9/16	2 1/4	9 1/2	4 8	1.40

SET No. T-40, two each of Nos. T-22 and T-23. Weight 14 oz.

LIST PRICE, in box.....\$ 4.70

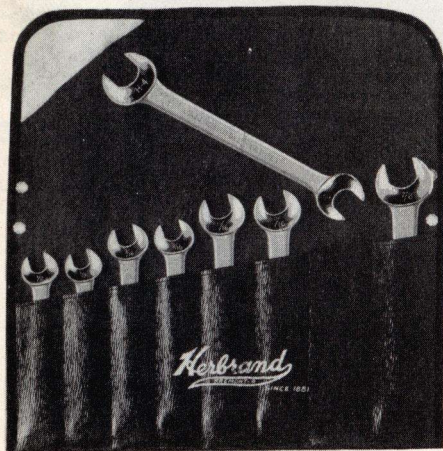
LIST PRICE, in pocket leatherette roll..... 5.20

SET No. T-80, two each of the 4 wrenches above. Weight 2 lbs.

LIST PRICE, in box.....\$ 9.30

LIST PRICE, in leatherette roll..... 10.00

See page 106 for Special Wing Bolt Socket for Valve Cover Plates



Set No. H-80

Van-Chrome Tappet Wrenches

Double End—15° Angle

Drop Forged from Chrome Vanadium Steel

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
H-1	$\frac{1}{16}$ & $\frac{1}{32}$	.....	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{5}{32}$	$7\frac{1}{4}$	1 8	\$.85
H-2	$\frac{1}{8}$ & $\frac{1}{16}$	$\frac{1}{4}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{23}{32}$	8	1 14	.90
H-3	$\frac{3}{8}$ & $\frac{1}{2}$	.....	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{23}{32}$	8	3 3	.90
H-4	$\frac{3}{4}$ & $\frac{1}{2}$	.....	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{23}{32}$	9	4 6	1.15

Packed 6 to the box

SET No. H-70, two each of Nos. H-2 and H-3. Weight 13 ozs.

LIST PRICE, in box \$3.60; in pocket leatherette case.....\$4.00

SET No. H-75, two each of Nos. H-1, H-2 and H-3. Weight 1 lb.

LIST PRICE, in box \$5.30; in pocket leatherette roll.....\$5.80

SET No. H-80, two each of Nos. H-1, H-2, H-3, H-4. Wt. 1 lb. 12 ozs.

LIST PRICE, in box \$7.60; in pocket leatherette roll.....\$8.30

The super quality and design of "Van-Chrome" Tappet Wrenches have given them nation-wide acceptance and in the face of all competition they still stand supreme. Strength—Precision—Balance—Design are the vital elements that characterize these outstanding wrenches. They have long, narrow pointed jaws set at just the proper pitch to engage the tappet nuts readily at an angle most convenient for efficient adjustment. The various lengths are correct for ease of handling and faster work.

H-2 and H-3, commonly used for most adjustments, are made in equal lengths but with different graduated openings—a mated pair that is hard to beat.

Their great strength is the result of individual drop forging from the finest Chrome Vanadium Steel and advanced heat treating to scientific standards. Beautifully finished in permanent nickel with mirror polished heads and satin finished grips.



Tappet Adjusting Screw Driver No. 336T

Built special for valve adjustments on all overhead valve motors. Chrome Tungsten blade. Overall length $6\frac{1}{2}$ ". Blade $2\frac{1}{2}$ ".

LIST PRICE, each.....\$.70



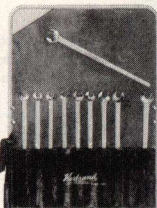
"VAN-CHROME" Herbrand TAPPET

The mechanic who has burned his hands on a hot manifold when making tappet adjustments will appreciate and want these Extra Long Tappet Wrenches. The thin, tapered handles are 12½" long to clear the hot manifold and provide maximum reach with positive control for precise adjustments. The thin, ⅜" pear shaped heads and narrow pointed jaws are set at just the right angle for that perfect balance that speeds up any tappet adjustment job.

Extra Long Tappet Wrenches are very necessary on many late model cars where tappet adjustments must be made from underneath the car.

Extra Long Tappet Wrenches

Drop Forged from Chrome Vanadium Steel



Set No. LT-10

15° Angle Heads—Satin nickel grips—Brightly polished heads. 6 to the box.

Wr. No.	Size Openings	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
LT-9	⅜	⅜	12½	2 4	\$1.50
LT-11	⅞	⅜	12½	2 4	1.50
LT-12	1	⅜	12½	2 4	1.50
LT-13	⅞	⅜	12½	2 4	1.50
LT-14	⅞	⅜	12½	3 6	1.60
LT-15	1½	⅜	12½	3 6	1.60

SET No. LT-6, 2 each of LT-12, 13 and 14. Weight 2 lbs. 3 ozs.
LIST PRICE, in pocket leatherette case.....\$9.90

SET No. LT-10 contains two each of Nos. LT-11, 12, 13, 14 and LT-15. Weight 3 lbs. 10 ozs.

LIST PRICE, in pocket leatherette case.....\$16.20



Van-Chrome Ultra Tappet Wrenches

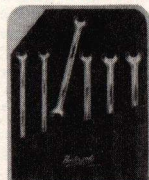
Self-Locating Thin Jaws—Reinforced Bar Handle for Rigidity

Drop Forged from Chrome Vanadium Steel—Plated and Polished



Dotted outline shows how round jaws automatically revolve the wrench into working position making immediate engagement without jamming.

No pointed jaws extending beyond the nut to jam or interfere with the movement of the wrench.



Set No. T-75

Wr. No.	Size Openings	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
T-1	⅜ & ½	⅜	9½	1 11	\$1.00
T-2	½ & ⅞	⅜	9½	2 1	1.10
T-3	⅞ & 1	⅜	9½	2 7	1.20
T-4	1 & 1½	⅜	9½	2 13	1.35
T-5	1½ & 2	⅜	9½	3 15	1.45

Packed 6 to the box

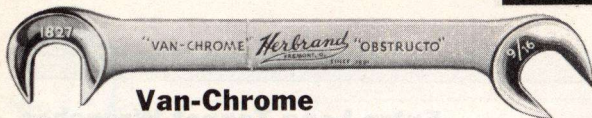
Sense of touch must be relied upon to engage the nuts on most tappets because of locations that make them invisible. The parabolic jaws of these wrenches are shaped to readily locate the nuts and automatically ride into position for a firm, positive grip. The heads are shaped to give increased accessibility and eliminate interference. Unique jaw construction doubles turning area.

SET No. T-70, two each of Nos. T-2 and T-4. Weight 1 lb.

LIST PRICE, in pocket leatherette case.....\$5.40

SET No. T-75, two each of Nos. T-2, T-4 and T-5. Wt. 1½ lbs.

LIST PRICE, in pocket leatherette case.....\$8.50



Van-Chrome Obstructo Wrenches

45° and 90° Angle Heads

Drop Forged from Chrome Vanadium Steel

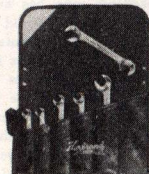
The thin heads and narrow pointed jaws of this wrench reach around obstructions and move hidden nuts or bolts with a firm sure grip in positions that ordinary wrenches cannot reach. Finished in satin nickel and the heads are polished.

Wrench No.	Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
1821	$\frac{3}{8}$	..	$\frac{3}{16}$	..	$\frac{11}{64}$	$5\frac{1}{2}$	1 ..	\$.90
1823	$\frac{1}{2}$	..	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{11}{64}$	$5\frac{1}{2}$	1 ..	.90
1825	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{13}{64}$	$6\frac{1}{2}$	1 14	1.10
1827	$\frac{1}{2}$	..	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{13}{64}$	$6\frac{1}{2}$	1 14	1.10
1829	$\frac{3}{4}$	..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{13}{64}$	$7\frac{1}{2}$	2 10	1.30
1831	$\frac{3}{4}$	..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{13}{64}$	$7\frac{1}{2}$	3 ..	1.30

Packed six to the box

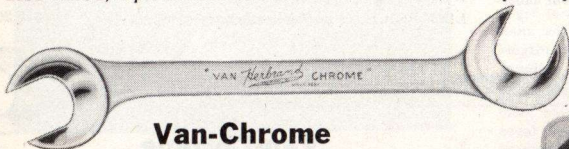
SET No. 1836, one each of the above. Weight 1 lb. 3 ozs.

LIST PRICE, in pocket leatherette case.....\$7.30



Set No. 1836

Both offset ends of each wrench carry the same opening with one head set at 45°, the other at 90° angles. Brake adjustments, carburetor, manifold and steering gear work, starter nuts and the like, respond speedily to the positive pull of these wrenches.



Van-Chrome Special Angle Wrenches

22 1/2° and 62 1/2° Angle Jaws

Drop Forged from Chrome Vanadium Steel

These Special Angle Wrenches not only function as general service tools in the maintenance shop, but are designed and sized to handle both major and minor brake adjustments on cars and trucks. Each end has the same size opening, one set at 22 1/2° and the other at 62 1/2° angle which have proved to be the proper angles for greatest efficiency under extreme conditions.

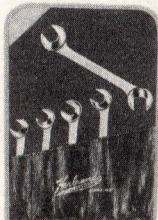
Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
281	$\frac{9}{16}$ & $\frac{5}{8}$	..	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{4}$	$6\frac{1}{4}$	2 4	\$1.20
282	$\frac{9}{16}$ & $\frac{5}{8}$	..	$\frac{7}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$6\frac{1}{4}$	2 4	1.20
283	$\frac{11}{16}$ & $\frac{1}{2}$	$\frac{3}{8}$	..	..	$\frac{3}{32}$	$7\frac{1}{16}$	4 4	1.50
284	$\frac{11}{16}$ & $\frac{1}{2}$	..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{32}$	$7\frac{1}{16}$	4 4	1.50
285	$\frac{11}{16}$ & $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{32}$	$8\frac{3}{8}$	5 4	1.75

Packed six to the box

SET No. 280, one each of above wrenches. Weight 1 lb. 14 ozs.

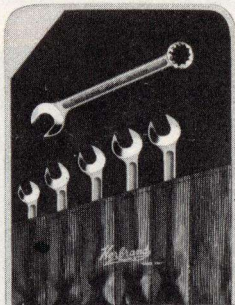
Satin nickel with polished heads.

LIST PRICE, in pocket leatherette kit.....\$7.85



Set No. 280

They are the only wrenches of their kind and the unusual angles of the heads with extra narrow pointed jaws have been engineered for reaching and turning awkwardly placed nuts not accessible to the ordinary wrench. The slender, ovate handles allow the greatest possible clearance in the tightest places.



Set No. 1227

The new "Van-Chrome" Multitype is a dual-purpose wrench combining in one tool two types of openings—box and open end. The advantages instinctively appeal to every mechanic because the handy and practical combination of different type openings equip him for most emergencies. If one style opening is not adapted to the particular job simply flip the wrench over and use the other end.

These general service wrenches find a wide range of use and are especially adaptable for carburetor, manifold, clutch, generator and starter work.

The box end, with its 12-point opening, is offset at 15° to give the proper clearance for obstructions and knuckles. The open end is angled at 22½° for efficiency. Each end has the same size openings. Handles are panelled for a firm grip, and ease of handling.

The seventeen popular sizes in which these wrenches are made cover at least 98 per cent of general service work. Drop forged from special analysis Chrome Vanadium Steel, accurately machined and heat treated all over for super-strength. Chrome plated with heads polished to a high lustre.

Available in four different popular sets that meet every demand.

Van-Chrome Multitype Wrenches

Combination Box and Open End

Drop Forged from Chrome Vanadium Steel

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
1212	3/8	..	3/16	..	4 1/2	1 2	\$.85
1214	7/16	..	3/4	..	5	1 5	.90
1216	1/2	3/4	3/16	3/16	5 1/2	1 8	1.00
1218	9/16	..	5/8	5/8	6	2 1	1.20
1220	5/8	..	7/16	7/16	6 1/2	2 10	1.30
1222	11/16	3/8	1/2	1/2	7	3 6	1.50
1224	3/4	..	1/2	1/2	7 1/2	4 6	1.65
1226	13/16	..	5/8	5/8	8 3/4	6 1	1.75
1228	7/8	1/2	5/8	9/16	10 1/4	6 6	1.85
1230	15/16	..	3/4	3/4	12 1/4	7 2	2.15
1232	1	..	3/4	1 1/16	14 1/8	15 10	2.40
1234	1 1/16	3/8	..	3/4	14 1/8	15 10	2.40
1236	1 1/8	..	7/8	..	17	31	3.50
1240	1 1/4	3/4	1	7/8	17	31	3.50
1242	1 3/8	..	1 1/8	..	19 1/2	46 8	4.20
1244	1 3/8	..	1 1/8	..	19 1/2	46 8	4.20
1246	1 7/8	7/8	..	1	19 1/2	46 8	4.20

Nos. 1236 to 1240 do not have paneled handles

Packed six to the box

SET No. 1225, 1 each Nos. 1214, 1216, 1218 and 1220. Wt. 12 ozs.

LIST PRICE, in box \$4.40; in leatherette case.....\$ 4.90

SET No. 1227, 1 each of the 6 sizes Nos. 1214 to 1224 inclusive. Weight 1 lb. 6 ozs.

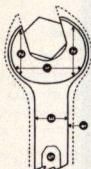
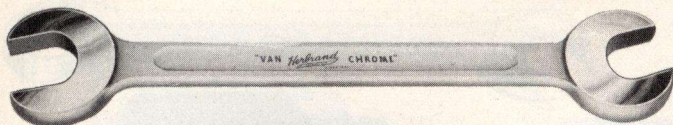
LIST PRICE, in box \$7.55; in leatherette case.....\$ 8.15

SET No. 1229, 1 each of 10 sizes. Nos. 1212 to 1230. Weight 2 lbs. 12 ozs.

LIST PRICE, in box \$14.15; in leatherette case.....\$14.75

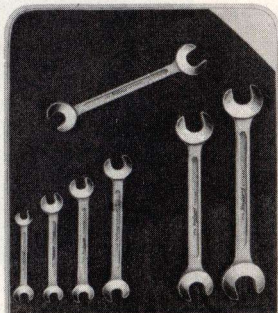
SET No. 1231, 1 each of 12 sizes, Nos. 1212 to 1234. Weight 5 lbs.

LIST PRICE, in box \$18.95; in leatherette case.....\$19.55



New Ultra Open-End Wrench compared with conventional type shown by dotted lines.

- ① Narrow Heads
- ② Short Jaws
- ③ Slender Handles
- ④ Thick Rounded Handle Edges
- ⑤ Recessed Panel
- ⑥ Dotted Outline Shows Ordinary Wrench



Set No. 1420

Van-Chrome Automotive Ultra Open-End Wrenches

New—Modern—Maximum Turning Radius
Drop Forged from Chrome Vanadium Steel

Definitely the last word in 15° Angle Open-End Wrenches, they are individually drop forged from round bar stock of select Chrome Vanadium Steel, exactly heat treated through and through and from end to end for durability under all conditions. Smoothed all over and chrome plated with mirror polished heads.

15° Angle Pattern

Wt. No.	Size Openings	For S.A.E. Nuts and Cap Screws	Head Thickness	Width Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
1423	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{29}{32}$ & $\frac{29}{32}$	$4\frac{5}{8}$	1 ..	\$.80
1425	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{13}{16}$	$\frac{13}{16}$ & $\frac{13}{16}$	$5\frac{3}{4}$	2 ..	1.00
1427	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{9}{16}$	$\frac{13}{16}$ & $\frac{13}{16}$	7	2 12	1.20
1429	$\frac{5}{8}$ & $1\frac{1}{16}$	$\frac{7}{16}$	$\frac{9}{16}$	$\frac{15}{16}$ & $\frac{15}{16}$	$8\frac{1}{4}$	4 ..	1.45
1431	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{11}{16}$	$\frac{11}{16}$ & $\frac{11}{16}$	$9\frac{1}{8}$	6 12	1.90
1431A	$\frac{3}{4}$ & $1\frac{1}{16}$	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{11}{16}$	$\frac{11}{16}$ & $\frac{11}{16}$	$9\frac{1}{8}$	6 12	1.90
1433	$1\frac{1}{16}$ & 1	$\frac{5}{8}$ & $1\frac{1}{16}$	$\frac{3}{4}$	$\frac{13}{16}$ & $\frac{21}{32}$	$10\frac{3}{4}$	11 ..	2.50
1435	$1\frac{1}{16}$ & $1\frac{1}{8}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{21}{32}$ & $\frac{21}{32}$	12	15 4	3.30

SET No. 1420, 1 each of Nos. 1423, 1425, 1427, 1429, 1431, 1433 and 1435. Weight 3 lbs. 8 ozs.

LIST PRICE, in fibre box.....\$12.15; in leatherette case.....\$13.00

Extra Long Wrenches, 22½° Angle Heads

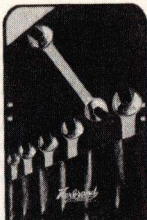
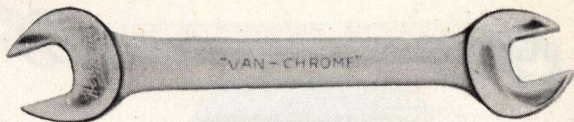
241	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{1}{4}$ & $\frac{9}{16}$	$\frac{7}{16}$	$\frac{119}{32}$ & $\frac{119}{32}$	15	12 12	\$3.10
242	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{5}{16}$ & $\frac{3}{8}$	$\frac{9}{16}$	$\frac{131}{32}$ & $\frac{231}{16}$	16	19 8	3.30
243	$\frac{5}{8}$ & $1\frac{1}{16}$	$\frac{7}{16}$ & $\frac{9}{16}$	$\frac{11}{16}$	$\frac{131}{32}$ & $\frac{231}{16}$	16	19 8	3.30

Extra Long Wrenches do not have paneled handles.

The diagram illustration shows how the new Ultra Open End Wrenches provide the maximum turning radius when working in confined quarters. Unlike conventional wrenches, there are no long jaws extending beyond the head of the nut to interfere with the movement of the wrench. The reduction in the width of the heads also increases accessibility to the maximum and eliminates interference frequently encountered with ordinary wrenches. The geometric design of the head is based upon the circle principle, and the narrow handle, with the small radii connecting the head to the handle, gives the additional turning radius so essential when working in confined places.

Each head diameter of these 15° angle wrenches is perfectly related to its respective opening and the handle lengths are graduated to conform. The jaws are the correct thickness, the milled openings are the proper depth for secure engagement of nuts, and the entire wrench is perfectly balanced, offering the mechanic the finest Open-End Wrenches for modern automotive application.

The combinations of openings have been carefully selected after thorough research of the mechanics needs and provide the correct sizes for the widest range of service. Narrow handles contribute to greater clearance and the rounded edges are easy on the hands. Any nut or bolt that these modern new wrenches engage will turn to the maximum.



Set No. 1025

Open End Wrench Sets

These Sets have been carefully planned as the most flexible and practical for general garage and mechanical use and to give the maximum range of service with the least number of tools.

SET No. 1025 contains one each of Nos. 1723, 1025, 1027C, 1028S, 1731A, 1033C. Weight 3 lbs. 4 ozs.

LIST PRICE, in fibre box \$7.90
In pocket leatherette case.... 8.80

SET No. 1025C contains one each of Nos. 1723, 1725B, 1027, 1729, 1731B, 1033C. Weight 3 lbs. 4 ozs.

LIST PRICE, in fibre box \$7.90
In pocket leatherette case.... 8.80

SET No. 1025A contains one each Nos. 1723, 1725, 1725B, 1727, 1029, 1729, 1731B, 1033C. Wt. 3 lbs. 5 oz.

LIST PRICE, in fibre box \$10.70
In pocket leatherette case.. 11.80

SET No. 1025B contains twelve Wrenches, one each Nos. 1721, 1723, 1025, 1725, 1725B, 1727, 1027, 1729, 1029, 1731A, 1731B, 1033C. Weight 4 lbs. 12 ozs.

LIST PRICE, in fibre box \$14.40
In pocket leatherette roll.. 15.70

Van-Chrome Open-End Wrenches

15° Angle Pattern—Light—Thin—Long—Strong

Drop Forged from Chrome Alloy Steel

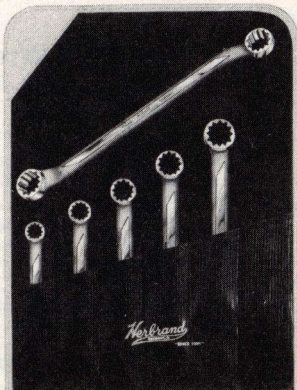
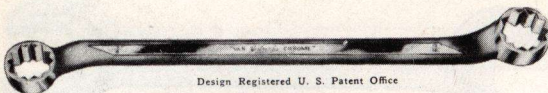
Herbrand Van-Chrome Open-End Wrenches are individually drop forged from select Chrome Alloy Steel. They are heat treated their entire length to give positive toughness.

The pointed jaws and thin, narrow heads offer wide accessibility and the extra length provides greater leverage. A perfect fit on nuts is assured because the openings are accurately machined to close, exact tolerances and they will not slip under the hardest pull.

Smoothly ground all over, nickel plated with satin finished grips and brightly polished heads.

Wrench No.	Size Openings	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
1721	5/16 & 3/8	3/16	5	1 ..	.65
1021	5/16 & 13/32	.....			
1722	5/16 & 7/16	... 1/4				
1723	3/8 & 7/16	... 1/4				
1023	13/32 & 1/2	... 5/16	13/64	5 3/4	1 14	.75
1723A	3/8 & 1/2	... 5/16				
1725	7/16 & 1/2	1/4 & 5/16				
1725A	7/16 & 9/16	1/4 & 3/8				
1725B	1/2 & 9/16	3/16 & 3/8	15/64	6 1/2	2 4	.90
1025	1/2 & 1 1/32	3/16				
1726	1/2 & 5/8	3/8 & 7/16				
1727	9/16 & 5/8	3/8 & 7/16				
1027	13/32 & 1 1/16	17/64	7 1/4	3 6	1.10
1027C	9/16 & 1 1/16	3/8				
1027F	3/8 & 1 1/16	7/16				
1728	9/16 & 3/4	3/8 & 1/2				
1028S	5/8 & 25/32	7/16	19/64	8 5/16	5 10	1.25
1729	3/4 & 3/4	7/16 & 1/2				
1029	1 1/16 & 25/32	.....			
1030	1 1/16 & 3/8	..... 9/16			
1731	3/4 & 1 3/16	1/2	23/64	9 3/8	7 8	1.70
1731A	3/4 & 7/8	1/2 & 5/8				
1031	25/32 & 7/8	..... 9/16			
1731B	15/16 & 7/8	..... 9/16			
1033A	7/8 & 15/16	9/16 & 5/8	27/64	10 3/4	12 6	2.30
1033	7/8 & 1 1/32	9/16				
1733	7/8 & 1	5/8 & 1 1/16				
1033C	15/16 & 1	5/8 & 1 1/16				
1034	7/8 & 1 1/16	9/16 & 5/8	31/64	12 1/4	18 ..	3.00
1734	7/8 & 1 1/8	9/16 & 5/8				
1034A	15/16 & 1 1/16	5/8 & 3/4				
1035	31/32 & 1 1/16	..... 3/4			
1735	1 & 1 1/8	1 1/16	31/64	12 1/4	18 ..	3.00
1736	1 & 1 1/4	1 1/16 & 3/4				
1037	1 1/16 & 1 1/4	3/4 & 7/8				
1737	1 1/8 & 1 1/4	..... 7/8			

Refer to page 158 for U. S. and American Sizes



Set No. 3901

Van-Chrome Ultra Box Wrenches

Modern—Special 30° Angle—Paneled Handles

Drop Forged from Chrome Vanadium Steel

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
3923	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	..... $\frac{1}{2}$	6 $\frac{1}{2}$	1 10	\$1.00
3925	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$..	$\frac{3}{8}$ & $\frac{3}{8}$	..... $\frac{3}{8}$	7 $\frac{1}{16}$	2 4	1.10
3927	$\frac{5}{8}$ & $\frac{5}{8}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	8 $\frac{5}{8}$	3 6	1.20
3929	$\frac{3}{4}$ & $\frac{11}{16}$	..... $\frac{3}{8}$	$\frac{3}{8}$..	$\frac{3}{8}$..	9 $\frac{1}{16}$	4 8	1.25
3931	$\frac{3}{4}$ & $\frac{13}{16}$	.....	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$..	10 $\frac{7}{8}$	6 12	1.40
3933	$\frac{7}{8}$ & $\frac{15}{16}$	$\frac{1}{2}$..	$\frac{5}{8}$..	$\frac{9}{16}$ & $\frac{5}{8}$	12 $\frac{1}{4}$	8 10	1.85

Extra long

*3935	1 & $\frac{13}{16}$	.. $\frac{5}{8}$	$\frac{3}{4}$..	$\frac{13}{16}$ & $\frac{3}{4}$	16	12 12	3.00
*3937	$\frac{13}{16}$ & $\frac{13}{16}$	.. $\frac{3}{4}$	$\frac{7}{8}$ & 1	.. $\frac{7}{8}$	18	19 8	3.70
*3938	$\frac{13}{16}$ & $\frac{13}{8}$	.. ..	.. $\frac{11}{8}$	.. ..	20	19 8	4.60
*3939	$\frac{13}{16}$ & $\frac{13}{8}$	$\frac{7}{8}$ ..	.. $\frac{13}{4}$	1 ..	20	31 8	4.60

* Do not have embossed panel design

Packed 6 to the box

SET No. 3901 contains 6 wrenches, one each of Nos. 3923 to 3933.

LIST PRICE, in fibre box \$7.80; in leatherette roll \$8.70

SET No. 3902, one each of Nos. 3923, 3925, 3929, 3931, 3933.

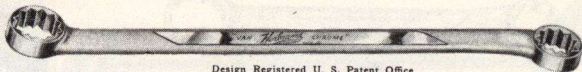
LIST PRICE, in fibre box \$6.60; in leatherette roll \$7.50

Ultra in name, ultra in modern design, these wrenches are the utmost in versatility and offer the broadest scope of service. Herbrand introduces them after working extensively with mechanics in order to develop a box wrench to the highest degree of perfection, efficiency and better adapted to the service of modern cars.

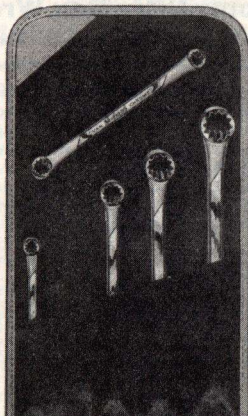
Low and close clearances offer no difficulties of accessibility because the heads are distinctively angled at approximately 30 degrees. This new angle assures perfect clearance for both knuckles and head bolts but retains sufficient offset to reach countersunk or imbedded nuts with ample leverage for a strong pull and without any possibility of tilting. The extremely thin side walls of the 12-point openings are machined to exacting tolerances to snugly fit bolt heads or nuts for which they are sized. Chamfered both top and bottom so that either side may be used with equal facility, they locate and engage automatically.

Painstakingly engineered to a very definite formula for perfect graduation and balance of length, size openings and clearance on today's compact motors. Beauty of appearance and perfect comfort of grip have been combined in the raised bar design which readily marks them as quality tools of distinction.

Individually drop forged from the finest Chrome Vanadium Steel and scientifically heat treated for life-time service. Handsomely triple plated in lustrous chromium with heads polished to mirror brightness.



Design Registered U. S. Patent Office



Set No. 5920

Engineered with the greatest care and precision, this new style 10° angle wrench is built for perfect balance, ease of accessibility, maximum application and strength and gives the mechanic a new, modern box wrench that will out-perform any of its type.

A broad study of the exacting requirements and concentrated engineering have perfected this wrench to successfully cope with the complicated service problems encountered on the highly developed cars of today.

The heads are designed with a chamfer, both top and bottom, so that either side engages the nuts equally well in any position and the 12-point, thin side wall openings are precisely machined for a full, secure grip that will not slip. The angle of the handle affords generous clearance with the easy reach of a straight wrench and applies a powerful, direct force avoiding tilting, slipping and bruising of knuckles.

The distinctive, raised paneled handles identify them as the Ultra in the box wrench field. The length of the handles are carefully graduated to balance with the opening sizes for perfect co-ordination of clearance and pull.

Precision drop forged from special Chrome Vanadium Steel and toughened by exacting heat treating methods. Attractively chrome nickel plated with bright panels and mirror polished heads.

Van-Chrome Ultra Box Wrenches

Latest—Special 10° Angle—Paneled Handles

Drop Forged from Chrome Vanadium Steel

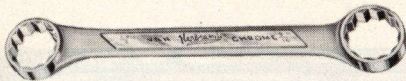
Available in five sizes with 12-point different openings in each end, extra thin side walls, balanced graduated lengths, and openings chamfered both top and bottom for use from either side. Supplied individually or in complete sets.

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
5923	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	..... $\frac{1}{4}$	6 $\frac{1}{2}$	1 10	\$.90
5925	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{2}$..	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{3}{8}$ & $\frac{3}{4}$	7 $\frac{1}{2}$	2 ..	1.00
5927	$\frac{9}{16}$ & $\frac{5}{8}$	.....	$\frac{5}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	8 $\frac{3}{8}$	3 2	1.10
5929	$\frac{11}{16}$ & $\frac{3}{4}$	$\frac{3}{8}$..	$\frac{1}{2}$..	$\frac{1}{2}$..	9 $\frac{3}{4}$	4 4	1.25
5931	$\frac{13}{16}$ & $\frac{7}{8}$	..... $\frac{1}{2}$	$\frac{9}{16}$ & $\frac{3}{4}$	..... $\frac{9}{16}$	11	6 12	1.40

Packed 6 to the box

SET No. 5920 contains one each of the above five wrenches.
Weight 1 lb. 6 ozs.

LIST PRICE, in fibre box.....\$5.65
LIST PRICE, in leatherette roll..... 6.35



Van-Chrome Ultra Box Wrenches

Improved 15° Angle Pattern—Paneled Handles

Drop Forged from Chrome Vanadium Steel

Careful drop forging from select Chrome Vanadium Steel, expert heat treatment, precision machining and paneled handles immediately identifies these Ultra Box Wrenches as super-quality tools of distinction. Triple plated in a two-tone chrome nickel with the heads polished to a high lustre.

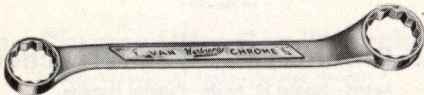
Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz.		List Price Each
6923	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	.. $\frac{1}{2}$	4 $\frac{1}{4}$	1	2	\$.90
6925	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	5	1	14	1.00
6927	$\frac{5}{8}$ & $\frac{1}{2}$	.. $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	5 $\frac{3}{4}$	2	10	1.05

SET No. 6920, contains one each of the above. Weight 8 ozs.

LIST PRICE, in box.....\$2.95

LIST PRICE, in pocket leatherette case..... 3.35

Designs Registered U. S. Patent Office



Van-Chrome Ultra Box Wrenches

Improved Short Offset Pattern—Paneled Handles

Drop Forged from Chrome Vanadium Steel

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz.		List Price Each
4923	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{8}$ & $\frac{1}{2}$	.. $\frac{1}{2}$	4 $\frac{1}{4}$	1	2	\$.95
4925	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$	$\frac{3}{8}$ & $\frac{1}{2}$	$\frac{3}{8}$ & $\frac{1}{2}$	5 $\frac{1}{4}$	1	14	1.05
4927	$\frac{5}{8}$ & $\frac{1}{2}$	.. $\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	6	3	..	1.10

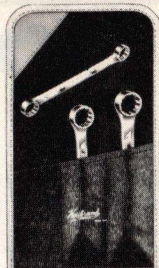
Packed 6 to the box

SET No. 4920, contains one each of the above. Weight 10 ozs.

LIST PRICE, in box.....\$3.10

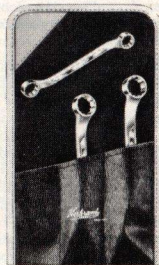
LIST PRICE, in pocket leatherette case..... 3.50

See page 86 for Midget Box Wrenches



Set No. 6920

The national recognition and acceptance accorded the new Ultra Box Wrenches introduced by Herbrand has created a demand for a complete range of patterns. This new 15° angle design is a distinct engineering improvement; has slim, graceful lines, maximum accessibility, is faster in service and easier to handle.



Set No. 4920

Another Ultra Box Wrench with modified offset heads which is extremely practical and necessary for awkwardly placed nuts where the turning radius is limited. Distinguished by the paneled handles and refined engineering features, this wrench is precision built from the finest Chrome Vanadium Steel and attractively finished in two-tone chrome plate with polished heads.



Set No. 6820

With all the ability and free leverage of a solid wrench, yet working easily around interfering parts, the Multiflex reaches concealed nuts with a grip that eliminates the hazard of slipping and skinning knuckles or rounding corners of nuts and bolts. The forged extra deep 12-point sockets and very thin, straight walls give maximum clearance and readily engage those sunken nuts which are not accessible to ordinary wrenches.



Van-Chrome Multiflex Box Wrenches

Swivel Heads

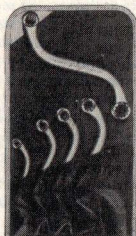
Drop Forged from Chrome Molybdenum Steel

True to its name the Multiflex is both flexible and serves a multitude of uses, because it adjusts instantly to any angle. The swivel heads break over to 90°, are equipped with compression springs to retain any working position desired, and handle nuts and bolts even at the most awkward angles. Satin nickel finish with brightly polished heads.

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
6823	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	.. $\frac{1}{4}$	7 $\frac{3}{8}$	4 8	\$2.30
6825	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$..	$\frac{3}{16}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{3}{8}$	8 $\frac{3}{4}$	6 ..	2.50
6827	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{3}{16}$ & $\frac{1}{2}$	$\frac{3}{16}$ & $\frac{1}{2}$	9	8 4	2.70
*6827V	$\frac{5}{8}$ & $\frac{11}{16}$	.....	$\frac{3}{16}$..	$\frac{3}{16}$..	9	8 4	2.70
6829	$\frac{11}{16}$ & $\frac{29}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	10 $\frac{3}{8}$	11 4	3.00
6831	$\frac{13}{16}$ & $\frac{7}{8}$	.. $\frac{7}{8}$	$\frac{3}{16}$ & $\frac{3}{8}$	.. $\frac{3}{16}$	11	13 8	3.20

*Especially sized for Ford V-8 service. Ideal for universal joints. Packed six to the box.

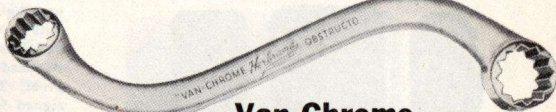
SET No. 6820, 1 each of 6823, 6825, 6827, 6829, 6831. Weight 4 lbs.
LIST PRICE, in fibre box \$13.70; in leatherette case \$14.40



Set No. 7720

Offset angles of the box heads provide knuckle clearance and permit a full swing where space is limited.

The accurate 12-point branchings are chamfered to locate and engage nuts and bolts readily. The very thin side walls of the box heads make clearance free in limited quarters.



Van-Chrome Obstructo Box Wrenches

"S" Pattern—Offset Heads

Drop Forged from Chrome Molybdenum Steel

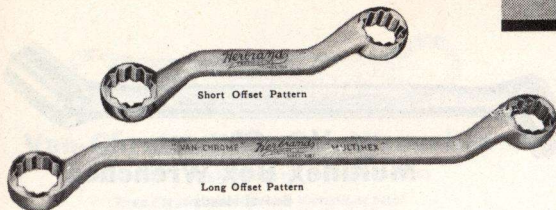
The unique angles, curves and offsets of heads reach around obstructions and get those hidden nuts without removing interfering parts. Satin nickel with brightly polished heads.

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
7723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	.. $\frac{1}{4}$	6	1 8	\$1.10
7725B	$\frac{1}{2}$ & $\frac{3}{4}$	$\frac{1}{4}$..	$\frac{3}{16}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{3}{8}$	7	3 ..	1.20
7727	$\frac{5}{8}$ & $\frac{3}{4}$	.....	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	8	4 8	1.30
7729	$\frac{11}{16}$ & $\frac{29}{32}$	$\frac{3}{8}$ & $\frac{7}{16}$	.....	.....	9	6 12	1.45
7731A	$\frac{13}{16}$ & $\frac{7}{8}$	.. $\frac{7}{8}$	$\frac{3}{8}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $\frac{3}{8}$	10	9 ..	1.65

Packed six to the box

SET No. 7720, 1 each Nos. 7723, 7725B, 7727, 7729 and 7731A.
Weight 2 lbs. 6 ozs.

LIST PRICE, in fibre box.....\$6.70; in leatherette case.....\$7.40



Multihex Box Wrenches

Offset Patterns 45° Angle

Drop Forged from Chrome Molybdenum Steel

Short 45° Offset Pattern

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
4723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	4 $\frac{1}{2}$	1 2	\$.70
4725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$..	$\frac{1}{16}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{2}$	5 $\frac{1}{4}$	1 14	.80
4727A	$\frac{5}{8}$ & $1\frac{1}{16}$	.. $\frac{5}{8}$	$\frac{1}{16}$..	$\frac{1}{16}$..	6	3 ..	.90

Long 45° Offset Pattern

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
3723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	$\frac{1}{4}$	8 $\frac{1}{2}$	2 4	\$.75
3725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$..	$\frac{1}{16}$ & $\frac{3}{8}$	$\frac{3}{16}$ & $\frac{1}{2}$	9	3 6	.85
3727	$\frac{5}{8}$ & $1\frac{1}{16}$	.. $\frac{5}{8}$	$\frac{1}{16}$..	$\frac{1}{16}$..	9 $\frac{3}{4}$	4 14	.95
3727A	$\frac{3}{8}$ & $1\frac{1}{16}$	.. $\frac{3}{8}$	$\frac{1}{16}$..	$\frac{1}{16}$..	9 $\frac{3}{4}$	4 14	.95
3729A	$\frac{1}{2}$ & $25/32$	.. $\frac{1}{2}$	$\frac{1}{16}$..	$\frac{1}{16}$..	11	7 2	1.10
3731B	$\frac{5}{8}$ & $\frac{7}{8}$	.. $\frac{5}{8}$	$\frac{1}{16}$ & $\frac{3}{8}$	$\frac{3}{8}$ & $1\frac{1}{16}$	12 $\frac{1}{2}$	8 10	1.30
3733C	$1\frac{1}{16}$ & 1	.....	.. $\frac{3}{4}$	$\frac{5}{8}$ & $1\frac{1}{16}$	14 $\frac{1}{2}$	14 ..	1.60



Set No. 3701



Set No. 3702



Set No. 3700

Multihex Box Wrench Sets

Offset 45° Angle Patterns

SET No. 3700 carries one each of 5 Long 45° Offset Box Wrenches, Nos. 3723, 3725B, 3727A, 3729A and 3731B. Weight 2 lbs. 8 ozs.
LIST PRICE, in box.....\$4.95; in pocket leatherette case.....\$5.65

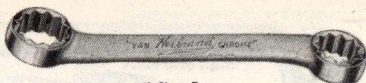
SET No. 3701 comprises one each of the 3 Short 45° Offset Pattern Nos. 4723, 4725B and 4727A. Weight 10 ozs.
LIST PRICE, in box.....\$2.40; canvas bag.....\$2.55; leatherette case.....\$2.80

SET No. 3702 contains 9 wrenches, one each of the 3 Short 45° Offset Pattern Nos. 4723, 4725B, 4727A and one each of the 6 Long 45° Offset Type Nos. 3723, 3725B, 3727A, 3729A, 3731B and 3733C. Weight 4 $\frac{1}{2}$ lbs.
LIST PRICE, in box.....\$8.95; in pocket leatherette case.....\$10.05

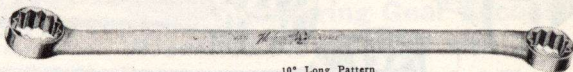
SET No. 3704 (not illustrated) contains one each of the 6 Long 45° Offset Pattern Nos. 3723, 3725B, 3727A, 3729A, 3731B and 3733C. Weight 3 $\frac{1}{2}$ lbs.
LIST PRICE, in box.....\$6.55; in pocket leatherette case.....\$7.45

Do not confuse the genuine "Van-Chrome" Multihex Box Wrenches with similarly designed, cheaper wrenches. There is an essential difference because Multihex are precision built to the specifications of mechanics. They are drop forged from a special analysis Chrome Molybdenum Steel, individually machined to precision tolerances with clean, accurate 12-point openings that snugly fit the size nuts for which they are intended, and heat treated to a definite standard to render them break-proof. They are correctly designed for maximum speed and handling efficiency with extremely thin side walls to reach sunken nuts and a well proportioned handle for positive grip.

Available in two patterns—Short 45° Offset and Long 45° Offset Heads. The heads are set at the correct pitch and just the right degree of offset to clear the obstructions most commonly encountered. Each end has a different 12-point graduated opening, providing a range of sizes fitting all popular nuts. Here you have refinements of speed, efficiency and moderate price backed by a quality guarantee that assures perfect satisfaction. Finished in satin nickel with heads polished.



15" Short Pattern



10" Long Pattern

Multihex Box Wrenches

10° and 15° Angle Patterns

Drop Forged from Chrome Molybdenum Steel

Short 15° Angle Pattern

Wrench No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
6723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	... $\frac{1}{4}$	4	1 2	\$.70
6725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$..	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	4 $\frac{1}{2}$	1 14	.75
6727A	$\frac{5}{8}$ & $1\frac{1}{16}$	.. $\frac{3}{8}$	$\frac{7}{16}$..	$\frac{7}{16}$..	5	2 10	.85

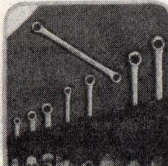
Long 10° Angle Pattern

5723	$\frac{3}{8}$ & $\frac{7}{16}$	.....	$\frac{3}{16}$ & $\frac{1}{4}$	... $\frac{1}{4}$	6 $\frac{3}{4}$	1	8	\$.80
5725B	$\frac{1}{2}$ & $\frac{9}{16}$	$\frac{1}{4}$..	$\frac{9}{16}$ & $\frac{5}{8}$	$\frac{5}{16}$ & $\frac{3}{8}$	7 $\frac{7}{8}$	3	..	.90
5727	$\frac{5}{8}$ & $\frac{11}{16}$	$\frac{3}{8}$ & $\frac{7}{16}$	$\frac{7}{16}$..	$\frac{7}{16}$..	8 $\frac{3}{4}$	4	8	1.00
5729	$1\frac{1}{16}$ & $2\frac{5}{16}$	$\frac{5}{8}$ & $\frac{7}{16}$	$\frac{5}{8}$ & $\frac{7}{16}$	10	6	12	1.15	
5731A	$\frac{3}{4}$ & $\frac{7}{8}$	$\frac{1}{2}$..	$\frac{1}{2}$ & $\frac{5}{8}$	$\frac{1}{2}$ & $\frac{9}{16}$	11 $\frac{1}{8}$	9	..	1.30

Packed six to the box



Set No. 5720



Set No. 5721



Set No. 3703

Multihex Box Wrench Sets

10° and 15° Angle Patterns

SET No. 3703, one each of the 3 Short 15° Angle Pattern Nos. 6723, 6725B and 6727A. Weight 8 ozs.

LIST PRICE, in box...\$2.30; canvas bag...\$2.45; leatherette case...\$2.70

SET No. 5720 consists of 5 Long 10° Angle Box Wrenches, Nos. 5723, 5725B, 5727, 5729, and 5731A. Weight 2 lbs. 6 ozs.

LIST PRICE, in box...\$5.15; in pocket leatherette case...\$5.85

SET No. 5721 is a complete assortment carrying 1 each Nos. 6723, 6725B, 6727A, Short 15° Pattern and Nos. 5723, 5725B, 5727, 5729 and 5731A in the Long 10° Angle Pattern, 8 Wrenches in all. Weight 3 lbs.

LIST PRICE, in box...\$7.45; in pocket leatherette case...\$8.55

Easy knuckle clearance of an offset wrench with the accessibility of a straight wrench, applying a direct, powerful pull on the nut. There is no tendency to tip or slip off when full force is exerted. An important feature is the fact that either side of the wrench opening may be used which is not possible with the 45° offset pattern. These wrenches are perfectly balanced and light weight for more efficient handling and have extremely thin walled openings for maximum accessibility.

Herbrand makes these wrenches in the Short 15° Angle and the Long 10° Angle Patterns to meet every need. Each pattern has been carefully engineered to give the necessary leverage yet sufficiently short to clear major obstructions. The clean cut 12-point openings are individually broached to insure precision and a full, firm fit on the size nuts for which intended. The top of the box socket is chamfered so that nuts readily locate in the openings. Available in all the popular sizes with a different opening in each end. Finished in satin nickel with the heads polished and buffed brightly.



Heavy Duty Box Wrenches

Drop Forged from Chrome Molybdenum Steel

Double Offset Pattern

Wrench No.	Size Opening	Head Thickness	Length	Shank Size	Weight Ea. Lbs. Ozs.	List Price Each
963	1 1/4	1 1/16	6 1/2	7/8	1 4	\$3.30
964	1 3/8	1 1/16	6 1/2	7/8	1 4	4.15
966	1 7/8	1 3/16	6 1/2	7/8	1 8	5.55
967	1 1/2	1 3/16	6 1/2	7/8	1 12	6.00
968	1 3/8	1	8	1	2 4	7.25
969	1 3/4	1	8	1	2 8	7.55
970	1 13/16	1 1/16	8	1	2 12	7.75
971	1 7/8	1 1/16	8	1	2 12	9.00
972	2	1 1/8	8	1	3	9.00
974	2 1/4	1 1/4	8	1	3 4	9.65

Nos. 963 to 967 inclusive are for use with Handle No. 920. Larger sizes take Handle No. 921.

Straight Pattern

Wrench No.	Size Opening	Head Thickness	Length	Shank Size	Weight Ea. Lbs. Ozs.	List Price Each
923	1 1/4	1 1/16	8 1/2	7/8	1 4	\$2.90
924	1 3/8	1 1/16	8 1/2	7/8	1 4	3.75
927	1 3/4	1 3/16	8 1/2	7/8	1 12	5.00
928	1 3/8	1	10	1	2 4	5.70
929	1 3/4	1	10	1	2 8	6.05
930	1 13/16	1 1/16	10	1	2 12	6.20
931	1 7/8	1 1/16	10	1	2 12	7.50
932	2	1 1/8	10	1	3	7.50
934	2 1/4	1 1/4	10	1	3 4	8.15

Numbers 923 to 927 inclusive take Handle No. 920. Larger sizes take Handle No. 921.

15° Angle Pattern

Wrench No.	Size Opening	Head Thickness	Length	Shank Size	Weight Ea. Lbs. Ozs.	List Price Each
943	1 1/4	1 1/16	8 1/2	7/8	1 4	\$2.90
944	1 3/8	1 1/16	8 1/2	7/8	1 4	3.75
945	1 3/4	1 3/16	8 1/2	7/8	1 8	4.55
946	1 7/8	1 3/16	8 1/2	7/8	1 8	4.55
947	1 1/2	1 3/16	8 1/2	7/8	1 12	5.00
948	1 3/8	1	10	1	2 4	5.70
949	1 3/4	1	10	1	2 8	6.05
950	1 13/16	1 1/16	10	1	2 12	6.20
951	1 7/8	1 1/16	10	1	2 12	7.75
952	2	1 1/8	10	1	3	7.75
953	2 3/8	1 1/8	10	1	3	8.50
954	2 1/4	1 1/4	10	1	3 4	8.50

Nos. 943 to 947 inclusive are for use with Handle No. 920. Larger sizes take Handle No. 921.

Interchangeable Tubular Handles for Use with Above Wrenches

Handle No.	Inside Diameter	Outside Diameter	Length	Weight Each Lbs. Ozs.	List Price Each
920	7/8	1 1/8	24	2 8	\$4.55
921	1	1 1/4	30	3 8	6.25

Super-powered for heavy nut turning work, these Heavy Duty Wrenches will break loose or tighten large diameter nuts with a minimum of effort because of extra leverage, special design and toughness. Perfectly balanced, they are lighter in weight and easier to use in close quarters than any other heavy wrenches. The 12-point openings take a solid hold on all faces of the nut with no danger of slipping, spreading or twisting. In addition to doing the work of ponderous standard stock tools, they replace numerous, costly special hand-made wrenches.

On heavy nut turning jobs, the safety factor is vitally important. These Wrenches give complete confidence because they eliminate hazards of breaking or slipping under the hardest pull.

Available in three practical designs for heavy service on trucks, buses, tractors, road machinery, steam shovels, railroads, ships, all heavy industrial machinery and structural work.

The Tubular Handles come in 24" and 30" length with inside diameters of 7/8" and 1" to fit the complete range of all types and sizes of these Wrenches. All three patterns of Wrenches are interchangeable on the Handles and have a positive lock-on device.

These special short, thin wrenches are for adjusting the knee-action steering gear eccentric. The 12-point box openings are only $\frac{3}{16}$ " thick to permit a full firm grip on the adjusting nut. Not guaranteed due to extreme thin head. Satin nickel with head polished.



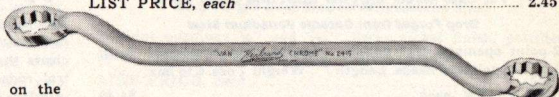
Steering Gear Eccentric Wrenches Nos. 2416 and 2417

For Pontiac, Chevrolet, Buick, LaSalle, Cadillac

Drop Forged from Chrome Vanadium Steel

No. 2416. 12-point opening $1\frac{1}{16}$ ". Length 5". Weight 5 ozs.
LIST PRICE, each\$2.25

No. 2417. 12-point opening $1\frac{1}{8}$ ". Length $8\frac{3}{4}$ ". Weight 8 ozs.
LIST PRICE, each 2.45



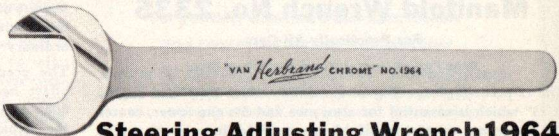
The steering arm nuts on the new knee-action cars are set so close to the frame that it is almost impossible to reach them. This double end box type wrench with $1\frac{1}{4}$ ", 12-point openings has the heads forged at special angles to fit over and adjust these nuts.

Steering Arm Nut Wrench 2415

For Chevrolet and Pontiac

Drop Forged from Chrome Vanadium Steel

12-point openings $1\frac{1}{4}$ ". Length 18". Weight 2 lbs.
LIST PRICE, each\$4.65



Adjustment of the steering worm on 1939 Chevrolet requires this special $1\frac{1}{16}$ " opening wrench. The length is correct for efficient handling. Nickel plated.

Steering Adjusting Wrench 1964

For Late Model Chevrolet

Drop Forged from Chrome Molybdenum Steel

Opening $1\frac{1}{16}$ ". Length $10\frac{1}{2}$ ". Weight 12 ozs.
LIST PRICE, each\$2.30



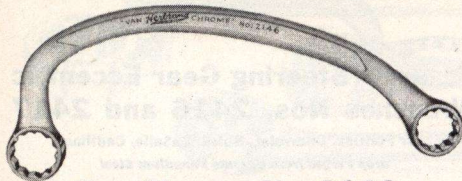
Has the necessary angles and bends to service the upper and lower yoke nuts on Buick and Oldsmobile. The $1\frac{1}{4}$ ", 12-point opening in the curved end takes the upper support nut which is set between the shock absorber on the spindle; the $1\frac{1}{16}$ " opening reaches the nut on the lower support yoke. Also ideal for camber work.

Knuckle Support Wrench 2410

For Buick and Oldsmobile

Drop Forged from Chrome Vanadium Steel

12-point openings $1\frac{1}{4}$ " x $1\frac{1}{16}$ ". Length 21". Satin nickel finish with polished heads. Weight 3 lbs. 6 ozs.
LIST PRICE, each\$8.00



Van-Chrome No. 2146 Starter and Manifold Wrench

For Late Model Chrysler Built and Other Cars

Drop Forged from Chrome Vanadium Steel

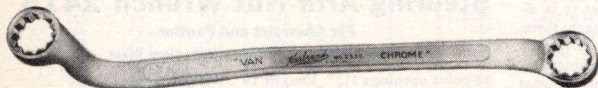
12-point openings $\frac{1}{16}$ " and $\frac{5}{8}$ ", special clearance bends. Satin nickel, polished heads. Length 7". Weight 7 ozs. 6 to box.

LIST PRICE, each.....\$1.40

Designed to service the exhaust manifold and starter nuts on late model Chrysler built cars, where ordinary wrenches are useless.

The $\frac{1}{16}$ " opening is angled to fit the exhaust manifold nuts and has been made extra thin for easy engagement and ample clearance.

The $\frac{5}{8}$ " opening fits the starting motor nuts and the unusual bend clears the steering column control rods and obstructions that interfere with ordinary wrenches.



Manifold Wrench No. 2335

For Practically All Cars

Drop Forged from Chrome Vanadium Steel

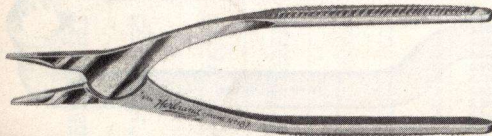
The 12-point $\frac{1}{16}$ " opening on one end is offset $2\frac{3}{16}$ " and angled at 23° which is essential for clearance and fits the lower, center and lower rear exhaust manifold nuts on V-8. The opposite end is angled at 50° for clearance on the cylinder block. The handle has a 10° offset to clear steering column.

Satin nickel. 12-point openings $\frac{1}{16}$ ". Length $8\frac{1}{2}$ ". Weight 6 ozs.

LIST PRICE, each.....\$1.80

Unique offsets, angles, twists and bends clear obstructions where ordinary wrenches are useless.

The precision angles and deep offset heads make it especially adaptable for efficient work on the exhaust manifold nuts on many of the popular late model cars including Ford, Chevrolet, Dodge, Graham, Plymouth, Pontiac, Hudson, Olds, Studebaker and others.



Chrysler Overdrive Plier No. 187

For Transmission Overdrive Sun Gear Lock Rings

Drop Forged from Chrome Molybdenum Steel

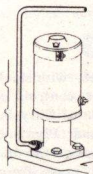
Satin nickel, polished jaws. Length 8". Weight 5 ozs. 6 to the box.

LIST PRICE, each.....\$2.10

These Pliers reach down into the sun gear counter bore and remove the lock rings.

Contoured to ride down the shaft with sufficient clearance, the long, lean reach and expanding jaws lift the rings to remove and assemble for servicing the overdrive on Chrysler built cars. Every mechanic doing Chrysler service needs this tool.

A real time-saving tool that replaces many special, costly wrenches. Combines 12-point popular openings of $\frac{5}{8}$ " and $\frac{1}{16}$ ". The $\frac{5}{8}$ " opening fits Buick, some models of Chevrolet, Studebaker, Pontiac Six and Pontiac Eight starter nuts, also Buick manifold. The $\frac{1}{16}$ " opening fits nuts on Buick heat trap and carburetor, Hudson starter and the manifold nuts on Chevrolets; Oldsmobile 6 and 8, Ford V-8's, Pontiac 6 and 8, and other cars.

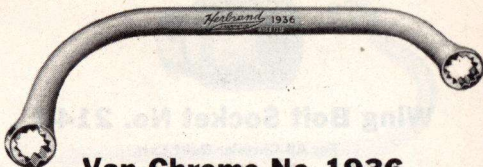


The starter bolts on late model Pontiacs are concealed in an inset between the block and the starter. The offset head is angled to slip readily over these bolts, and remove or replace them.

This tool is very essential for Pontiac starters and works equally well on Olds 8 and other cars.

Designed for more efficient main bearing work on all Chevrolets from 1929 to present models, these wrenches also fit many other popular cars.

The $15\frac{1}{2}$ " length is necessary for accessibility, clearance, and maximum handling efficiency. The heads are offset at the correct angle for easy operation. They also fit the cylinder head bolts on the cars listed. Accurately sized and heat treated.



Van-Chrome No. 1936 Starter and Manifold Wrench

For Fords, Chevrolet, Buick, Pontiac, Hudson, Olds, Etc.

Drop Forged from Chrome Molybdenum Steel

12-point openings $\frac{5}{8}$ " and $\frac{1}{16}$ ". Satin nickel finish, polished heads. Length 8". Weight 5 ozs. 6 to the box.

LIST PRICE, each.....\$1.30



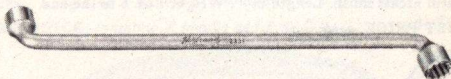
Starter Nut Wrench No. 1941

For Pontiac, Olds and Other Late Models

Drop Forged from Chrome Vanadium Steel

12 point $\frac{5}{8}$ " opening, overall length 11". Finished in satin nickel, polished heads. While primarily designed for Pontiac starter nut work, the popular $\frac{5}{8}$ " opening size adapts it to many other uses, especially where conventional wrenches cannot reach. Weight 11 ozs. 6 to the box.

LIST PRICE, each.....\$2.10



Main Bearing Wrenches

For Chevrolet, Pontiac, Chrysler, Dodge, Plymouth

Forged from Chrome Vanadium Steel

No. 1937, has 12-point openings $\frac{5}{8}$ " and $\frac{3}{4}$ " for work on Chevrolet Models 1929 to early 1933 inclusive.

No. 1939 combines $1\frac{1}{16}$ " and $\frac{3}{4}$ ", 12-point openings which are adaptable to main bearing work on Chevrolet Models from late 1934. This wrench also services Pontiac 8, 1933 to 1939 inclusive; Chrysler 6 and 8; Dodge 6 and 8; Plymouth 1930 to 1939.

Satin nickel, polished heads. Length $15\frac{1}{2}$ ". Weight 1 lb.

LIST PRICE, Nos. 1937 and 1939, each.....\$2.20



Wing Bolt Socket No. 2145

For All Chrysler Built Cars

Forged from Chrome Molybdenum Steel

Broached with 6 perfectly fitting slots to remove wing bolts on late Chrysler built cars and all other makes using wing bolts on valve cover plates.

Satin nickel finish, polished wall. $\frac{3}{8}$ " drive connection. Height $1\frac{1}{2}$ ". Weight 2 ozs. 6 to the box.

LIST PRICE, each.....\$.80

Chrome plated Brass Flange Nut which is used on the control switches of Chrysler-built cars and which require this wrench for service. →



No. 2144 Dashboard Flange Nut Tool

For All Chrysler Built Cars

Chrome Nickel Steel

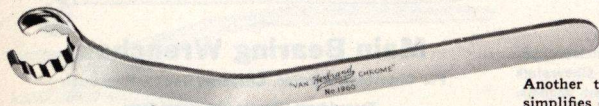
This tool is constructed with two extended lugs that exactly fit the slots in the flange nut. The stem is hollow and sufficiently deep to fit over the control rods and permit entering far enough for positive engagement. No other tool will do this job without damage to dashboard, switches or flanges. Because of the necessary thinness and lightness of this tool, it cannot be guaranteed.

Satin nickel finish. Length $2\frac{1}{2}$ ". Weight 1 oz. 6 to the box.

LIST PRICE, each.....\$.80

The wing bolts that hold the valve cover plate must be removed while very hot for adjusting tap-pets. This Special Slotted Socket is accurately broached with 6 slots to fit the wing bolts and works with any ratchet or standard $\frac{3}{8}$ " drive socket wrench attachment.

The light switches, windshield wiper and throttle controls on 1936 to 1939 models of Chrysler, DeSoto, Dodge and Plymouth cars are held in place on the dash by chrome plated brass flange nuts. These nuts are round and the use of a plier damages the plating, mars the dash, and injures the switches and connections. This tool is absolutely necessary to remove and replace them without injury to parts.



Clutch Adjusting Wrench 1960

For Chevrolet

Drop Forged from Chrome Molybdenum Steel

Necessary for clutch work. Fits 1936 and later models.

Satin nickel finish. Twelve point $\frac{3}{4}$ " slotted opening. Length 9". Weight 5 ozs. Packed 6 to the box. Not guaranteed.

LIST PRICE, each.....\$1.50

Another time-saving tool that simplifies clutch adjustments on late model Chevrolets. Properly angled, the offset head has the correct pitch for easy clearance, and the bend of the handle is the proper degree to readily engage for efficient adjustment. The 12-point box type opening is slotted to avoid interference of obstructions and readily slide over the shaft on the clutch pedal.

The special angles and bends, combined with the proper box and socket type openings, conveniently reach all the studs from one side of the motor.

The 12-point box opening is set on a reverse bend to engage the center head bolts located under the rocker arms and the clearance from the handle to the face of the wrench head is correct for perfect clearance of the rocker arms, coil box and oil line.

The 12-point socket end is angled at 90° to the handle and has the correct offset for clearance of the rocker arms when working on head bolts across the motor.



Van-Chrome No. 1945 Cylinder Head Stud Bolt Wrench

For All Chevrolets Including 1937 Models

Drop Forged from Chrome Alloy Steel

Openings, 12-point $\frac{3}{4}$ " socket and 12-point $\frac{3}{4}$ " box type. Satin nickel plated with polished heads. Length 12". Weight $1\frac{1}{2}$ lbs.

LIST PRICE, each.....\$2.35

Chevrolet mechanics know how difficult it is to replace motor heads, which must slide under the dash projection, without damaging or displacing the gaskets. The two aligning studs which come with this tool are screwed into the block to hold the gasket in place. The cylinder head is then replaced over the studs for perfect alignment without damaging gasket. A convenient T handle is supplied for removing the studs.



Chevrolet Head Aligning Tool No. 1946

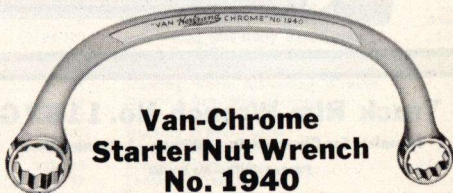
For Holding Gaskets in Place and Aligning Heads

Saves Time and Avoids Damage to Gaskets

Comprises two accurately notched motor head studs and a T handle for removing them after head is in place. Plated in satin nickel. Length of T handle 5". Weight 3 oz. 6 to the box.

LIST PRICE, complete T handle and 2 studs.....\$1.65

Combining the two popular 12-point openings, $\frac{5}{8}$ " and $\frac{3}{4}$ ", this new special bend wrench clears all obstructions for immediate contact with the nuts on the starter motor housing on all Chevrolet models. The $\frac{5}{8}$ " opening takes care of the nuts on all cars up to 1937, and the $\frac{3}{4}$ " end handles later models. The unusual contour, extra deep bends and popular combination of openings adapts the wrench to many applications. Satin nickel.



Van-Chrome Starter Nut Wrench No. 1940

For All Models Chevrolet

Drop Forged from Chrome Vanadium Steel

12-point openings $\frac{5}{8}$ " and $\frac{3}{4}$ ". Length $7\frac{3}{4}$ ". Wt. 5 ozs. 6 to box.

LIST PRICE, each.....\$1.40



Rear Wheel Bearing Wrench No. 1947

For Chevrolet Trucks

The Only Tool That Does The Job

Tool is cross drilled with $\frac{3}{4}$ " holes to fit the 20" leverage bar. Height $6\frac{1}{4}$ ". Length of bar 20". Weight $7\frac{1}{2}$ lbs. Nickel plated.

No. 1947. Wrench and Leverage Bar. LIST PRICE.....\$8.70

No. 1947W. Wrench without Bar. LIST PRICE..... 7.10



No. 1959 Universal Joint Bushing Punch

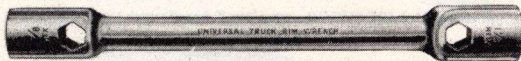
For Chevrolet Trucks

Drop Forged from Chrome Molybdenum Steel

This Tool works through the universal joint to drive out the opposite bushings. The spring locks, which hold the bushings in place, must first be removed.

Length 8". Weight $9\frac{1}{2}$ ozs. 6 to the box. Nickel plated.

LIST PRICE, each.....\$1.35



Truck Rim Wrench No. 1152G

Complete for Chevrolet Dual Wheels—3 Opening Sizes

Forged Solid—No Welds

Forged from solid bars of high carbon steel, expertly heat treated to withstand gruelling punishment. Satin nicked.

Openings $\frac{5}{8}$ " square, $\frac{7}{8}$ " hex and $1\frac{1}{4}$ " hex. Length $15\frac{3}{8}$ ". The Leverage Bar is 20" long. Weight 7 lbs.

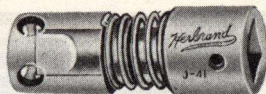
LIST PRICE, complete, Wrench and Leverage Bar.....\$3.05

Late model Chevrolet trucks with full floating rear axles absolutely require this wrench to remove the lock nuts and adjust the rear wheel bearings. The two lock nuts which hold the wheel bearings in place are the spanner type carrying six slots and will not respond to any other type tool.

The tool is milled with six evenly spaced teeth that accurately fit the slots in the lock spanner nuts. The built-in pilot automatically centers in the axle tube and provides an easy means of removing the nuts and drawing them up tightly into position.

A New Flat Tapered Punch designed for driving out the four bushings in the one piece trunion universal joint used on late model Chevrolet trucks. The universal joint must be taken apart to drop the drive shaft when doing clutch, transmission or fly wheel work. This special Punch permits doing these jobs without pulling the rear end and effects a decided saving in time and labor.

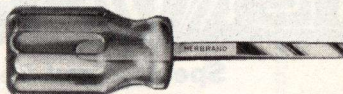
Here in one handy Rim Wrench are combined the three necessary sizes of square and hexagon extra deep openings to service all Chevrolet dual wheels. The 20" Hex Handle furnished with this set slides through the hex openings in the heads of the wrench, acting as a T handle and creating leverage that easily starts, and spins off stubborn, frozen nuts.



Pan Screw Driver No. J-41

For Chevrolet

$\frac{3}{8}$ " drive connection to fit any Junior Series Handles. Finished in satin nickel. Length 2". Weight 2 ozs. Chrome Alloy Steel. Drilled with four holes to avoid accumulation of grease and dirt.
LIST PRICE, each.....\$1.55



Carburetor Screw Driver 1957

For Chevrolet

Chrome Tungsten blade, nickel plated and polished. Pyralin handle. Length overall $4\frac{1}{4}$ ", blade $2\frac{1}{8}$ ". Weight 2 ozs.
LIST PRICE, each.....\$1.05

With this tool, replacing and removing screws from the Chevrolet oil pan is quick and easy. The tubular guide fits over the screw head readily and locates the bit positively in the slot with no chance of slipping off. The flexible spring construction provides simple and easy action.

Efficient work on Chevrolet carburetor requires this new Screw Driver with special length, thickness, width and taper of blade. Just right for perfect accessibility and engagement of the carburetor jets.

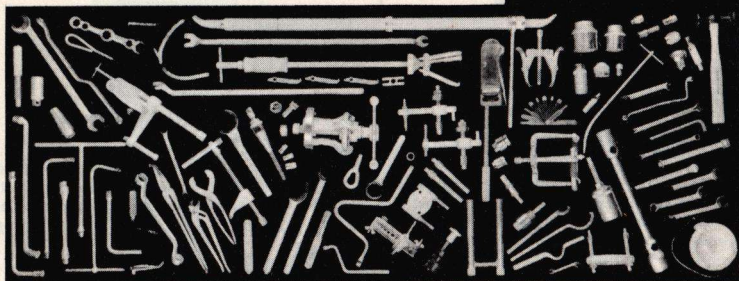
Other Chevrolet Service Tools

Illustrated and Listed in Classified Sections

In preparing this catalog the tools have been listed in groups pertaining to their use or function. Special Chevrolet Service Tools are grouped in pages 103 to 109. Many General Service Tools, such as Pullers, Sockets, Body and Fender Tools, and others, are also built for Chevrolet use, and for ease of locating are listed below.

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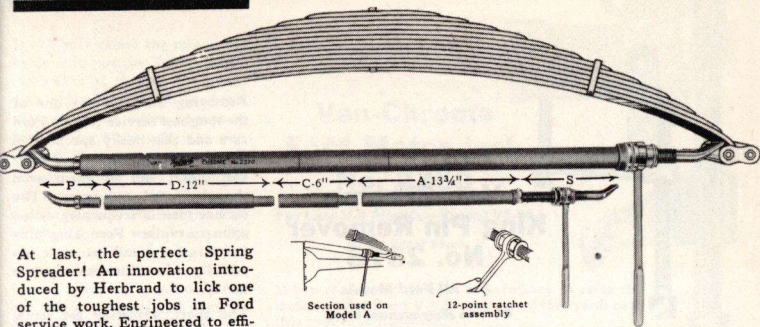
Special Ford Service Tools

Designed for Perfect Workmanship, Economy of Time and Greater Profit

The broad Herbrand line incorporates a wide diversity of special Ford Tools, engineered to perform the difficult service jobs daily encountered at the greatest saving of time and labor. Herbrand, who has pioneered the majority of these special Ford Tools, does not merely turn out implements that perform mechanical functions efficiently, but engineers them as a means of establishing a shop practice for the most profitable service work. They are precision made and moderately priced.

Grouped in the Ford section, pages 110 to 125, will be found the specialized Ford Tools for special service problems. For your convenience in locating the many other General Service Tools that are also built for Ford Work, they are listed in the handy reference table below.

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At last, the perfect Spring Spreader! An innovation introduced by Herbrand to lick one of the toughest jobs in Ford service work. Engineered to efficiently and easily handle both front and rear springs on all Fords from 1928 model A to the latest V-8 models. All mechanics know the grief and loss of time occasioned when working on axles, springs, shackles, replacing spring leaves and similar jobs. This tool enables one man to spread the springs for disassembling or complete removal of the rear end. It brings the spring eyes to exactly the right position for easy insertion of the shackles.

The Chrome Vanadium twelve-point ratchet handle expands the springs easily and works freely under pressure. A few turns of the ratchet spreads the springs and holds them securely in place while all work is being completed. This self-contained tool has no trick attachments and is scientifically perfected to handle the complete range of Ford spring service work because it is adjustable to the correct length by the use of segments. Broken spring leaves are replaced or new springs installed with a great economy of time.

Makeshift and hazardous methods of jacking and blocking springs are now eliminated. Herbrand Spring Spreaders insure safety for the mechanic, are simple and speedy in action and effect real economies.

Van-Chrome Ford Spring Spreader No. 2370

Improved—Adjustable for All Model Fords

For Both Front and Rear Springs

This Spring Spreader is constructed in segments to provide the correct lengths that make it universal for all Ford springs. The new lengths of Segments A and D broaden its range and make it more serviceable for model A rear springs.

No. 2370 Spreader. Comprises Segments 2370A, 2370C, 2370D; Wedges 2370P and 2370S; Ratchet Handle 2370H; Nut and Thrust Washer 2370N. Weight 18 lbs. Satin nicked.

LIST PRICE, complete.....\$19.00

No. 2370A, Segment 13 3/4" long.

LIST PRICE, each.....2.40

No. 2370D, Segment 12" long for use to overcome the variation of springs on some models.

LIST PRICE, each.....2.70

No. 2370P, New Style Spring Engaging Wedge to prevent slipping—especially efficient on 1937 models.

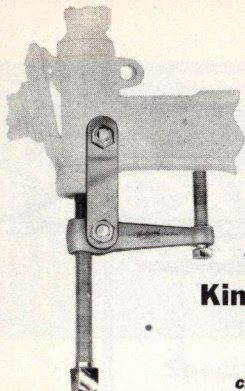
LIST PRICE, each.....3.00

No. 2370S, New Style Threaded Spring Engaging Wedge.

LIST PRICE, each.....4.80

Spring Spreader Use Chart

MODEL AND YEAR	REAR SPRING	FRONT SPRING
Model A & B 1928 to 1933	Units A & S Used Between Differential Housing & Spring Eye Min. Exp. 18 1/2" Max. Exp. 27 1/2"	A & C & P & S Min. Exp. 28" Max. Exp. 37"
Model V8 1932-1933-1934	Parts A & C & D & P & S Min. Exp. 40" Max. Exp. 49"	A & C & P & S Min. Exp. 28" Max. Exp. 37"
Model V8 1935 to 1939	Parts A & C & D & P & S Min. Exp. 40" Max. Exp. 49"	A & D & P & S Min. Exp. 34" Max. Exp. 43"



Van-Chrome King Pin Remover No. 2376

For All Ford Models

Chrome Molybdenum Steel

Method of operation: The half round bolt goes through the king bolt lock pin hole. The adjusting set screw at the small end of the arm is necessary for proper alignment and butts up against the perch nut on 1937 and later models; on earlier models it butts up against the axle. A centering nipple is supplied with the tool; the large end goes against the forcing screw and the small end against the king pin. Satin nickel finish. Polished bolt heads.

Weight 4 lbs. 6 ozs. Packed one to the box.

LIST PRICE, each.....\$8.30



King Pin Punch No. 2357

For All Ford Models

Made from Chrome Molybdenum Steel

Satin nickel with polished ends. Length 4". Weight 7 ozs.

LIST PRICE, each.....\$.80



Spindle Bushing Punch No. 2358

For All Fords and Other Popular Cars

Made from Chrome Molybdenum Steel

Equally efficient for either the insertion or removal.

Satin nickel finish, polished ends. Length 2 3/8". Weight 4 ozs.

LIST PRICE, each.....\$1.00

Removing king pins is one of the toughest service jobs on Ford cars and this husky special tool pushes them out easily and takes the "fight" out of them even though rusted and frozen. The service man is frequently called upon to replace Ford king pins and this tool is indispensable, especially where time-saving is a factor.

The short, adjusting set screw on the small end of the drop forged arm is required for leveling the tool and the long forcing screw exerts the tremendous power necessary to break loose and push out frozen king pins.

All parts are made from special Chrome Molybdenum Steel and heat treated to withstand the abuse that this tool must take.

This simple Punch will remove most king pins with a few hammer blows. When pins are extra tight, jack up car, place anvil or solid base under the spindle, slip the tool into king pin and lower car until weight is resting on the Punch; strike axle sharply on top and the king pin is forced out without damaging spindle.

The split type bushing is very difficult to insert without the proper tool because it has a tendency to overlap and buckle in the spindle. Removing Ford king pin bushings often necessitates disassembling the whole front end. This special Bushing Punch entirely eliminates these irksome difficulties and does the work quickly and perfectly.

It not only raises the motor and holds it in position but provides the means of turning the motor over while working on the bearings, replacing rings, pistons or any of the numerous jobs performed with the crank case off. Simply remove the fan pulley nut, screw the threaded bolt into the crank shaft and rest the foot of the tool on the chassis. An easy turn of the forcing screw raises or lowers the motor to the proper working position. The use of a conventional jack is dangerous and frequently the shop is not in condition for the use of a chain hoist.

Van-Chrome Ford Motor Jack No. 2360

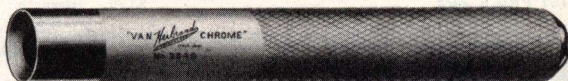
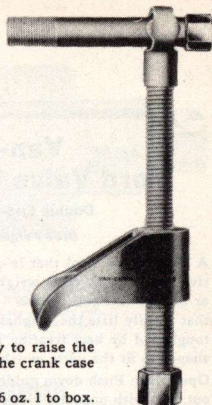
For Late V-8 Models—Except V8-60

Stress-Proof Steel

When the mechanic finds it necessary to raise the motor on the Ford V-8 for dropping the crank case this tool is indispensable.

Satin nickeled. Height 11". Wt. 2 lbs. 6 oz. 1 to box.

LIST PRICE, each.....\$5.80



Made to conform to the contour of the shackle bolt they remove and replace rubber shackles on the Ford V-8 with a minimum of time and effort. Sized to fit the end of the shackle bolt, which eliminates the possibility of splitting the case, a common hazard when make-shift tools are used. The handle is knurled.

Ford Shackle Bushing Punches

Three Sizes for All Ford V-8's

Chrome Nickel Steel—Heat Treated for Long Life

Length 7". Weight 1 lb. 3 ozs. Nickel plated. 6 to the box.

No. 2348, for $\frac{7}{8}$ " rear shackle. No. 2349, for $\frac{3}{4}$ " front shackle.

LIST PRICE, each.....\$1.80

No. 2349T, for use on $1\frac{1}{8}$ " shackle of V-8 Truck front spring.

LIST PRICE, each.....\$2.00



Built to quickly swedge the metal around the bolts and hold them securely in place. The hub, with bolts in position, should be placed on anvil or otherwise "backed up" while peining. Extra tough and strong and heat treated throughout to withstand hammer shock. They do a quick, accurate job.

Ford Hub Bolt Set Punches

For Passenger Cars and Trucks

Made from Chrome Molybdenum Steel

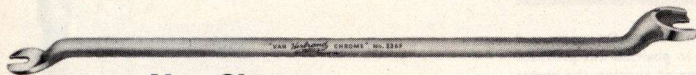
Length 6". Knurled handle. Satin nickel, polished bit. 6 to box.

No. 2384, for passenger cars. $1\frac{5}{16}$ " stock. Weight 17 ozs.

LIST PRICE, each.....\$1.65

No. 2384T, for trucks. $1\frac{3}{16}$ " stock. Weight 1 lb. 11 ozs.

LIST PRICE, each.....\$2.05



Van-Chrome Ford Valve Lifter No. 2369

Double End—For V-8 60 and 85 H.P.

Drop Forged and Heat Treated

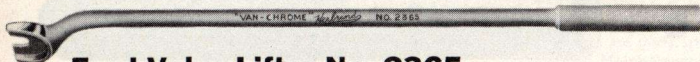
A Two-in-one Tool that is quick in operation, simple and positive in action. Light in weight and very rigid so it will not twist or slip off the job. The 27" length creates a powerful leverage that readily lifts the toughest valve assembly. The thin jaws are toughened by heat treating for strength and long wear and are shaped to fit the parts which they engage.

Operation: Push down guide and remove keeper; to force guide out, pry with opposite block as a fulcrum.

Satin nickel plate, polished ends. Length 27". Weight 2 lbs. 12 ozs.

LIST PRICE, each.....\$3.30

The 27" length of this solid drop forged Double End Valve Spring Lifter creates ample leverage to break loose the toughest guides. The small jaw on one end is for the V-8 60 and the opposite jaw services the larger motors. Forged from heavy bar steel for rigidity and heat treated for extra strength.



Ford Valve Lifter No. 2365

For All Models of V-8 Except V8-60

Drop Forged from Tool Steel

To service models 1932-33: Insert fork near bottom of spring, depress handle, using opposite block as a fulcrum.

To service later models: With heel of tool upward, insert fork near lower end of valve guide. Pull upward on handle and remove horse shoe lock. Reverse tool, push down on handle and valve and guides will push out at top of block.

Triple nickel plate. Length 24". Weight 2 lbs. 6 to the box.

LIST PRICE, each.....\$2.10

Designed with a combination of two distinctive jaws in one head, correctly sized and offset for servicing all V-8's except the 60 H.P. The 24" length provides ample leverage for compressing the stiffest springs. Drop forged in one piece from special Tool Steel. The large knurled handle gives a firm, steady grip.



Ford Valve Grinding Guides

For Ford V-8 and A Models

Precision Machined to Very Close Limits for Greatest Accuracy

Available in the 3 necessary sizes: No. 2385 for Ford V-8-60; No. 2386 for other Ford V-8 models; No. 2387 for Ford Model A.

LIST PRICE, each.....\$2.05

Precision and great accuracy in machining these guides is absolutely essential for perfect grinding of valves. Guides go in the block from the top and lift out with the valves for inspection. The body is ground concentric with the valve stem hole so that the valve is always held true as in the original guides. The retainer spring hinges the two halves together for faster operation.

General Service Valve Spring Lifters and Compressors are shown on pages 66 and 67

When the guides are carboned or badly burned the valves stick and it is impossible to drive them out or pry them loose without damaging guides or block.

The Herbrand Valve Assembly Puller is specifically designed to overcome the toughest valve pulling jobs without loss of time and without damage to parts. The sturdy sleeve which houses the puller cup and threaded stud is specially angled to exactly face up with the block and exert a perfectly straight pull. There is no cocking of the valve assembly or binding to prevent the full force of the pull being effective on the guide.

The one piece pulling cup is designed with unique slots and grooves to perfectly fit the head of the valve.

A Chrome Alloy thrust washer is placed directly under the special large sized forcing nut on the center of the sleeve which evenly distributes the strain and concentrates the pull on a perfect center.

These Knockouts are not only drop forged from the highest grade of select Chrome Alloy Steel but are toughened by the most scientific heat treating to withstand the constant hammering to which they are subjected. They are absolutely dependable and will not distort or bend even at the offset, which is carefully designed to clear the valve seat.



Sketch shows Puller in position ready to dislodge the valve assembly. It portrays the ease and simplicity with which the one-piece pulling cup engages the valve stem head, regardless of position and without loss of time.

Van-Chrome Valve Assembly Puller No. 2364

For All Ford V-8 Passenger Cars and Trucks

Chrome Molybdenum Steel

Do not confuse this precision made quality Puller with any of lower price and inferior quality. The housing of Herbrand No. 2364 is carefully machined from Solid Bar Steel. No tubing or welds are used.

To operate:

1. Remove slotted lock from valve assembly.
2. Raise valve sufficiently with lifting bar to slide puller cup, attached to stud, over valve head.
3. Slide grooved puller cup over valve head.
4. Place outer sleeve over pulling assembly with flat face (marked top) toward center of the block.
5. Run pulling nut down over thrust washer and tool is ready to pull.

All pulling parts are accurately machined from select Chrome Molybdenum Steel and heat treated. Finished in satin nickel. Height 5". Weight 2 lbs. 14 ozs. Individually boxed.

LIST PRICE, complete.....\$8.25



Ford Valve Guide Knockouts

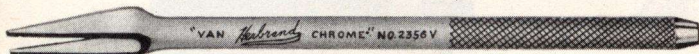
Drop Forged from Chrome Alloy Steel

Satin nickel finish. Length 9". Weight 7 ozs. 6 to the box.

No. 2353 for Models A and B. No. 2354 for V-8 Models.

LIST PRICE, each.....\$.90

Refer to page 148 for Valve Guide Hole Cleaning Brushes



Ford Shock Absorber Link Separator No. 2356V

For Late V-8 and Other Models

Drop Forged from Chrome Molybdenum Steel

This powerful wedging tool is essential to take care of the shock absorbers including those incorporating recent engineering changes.

To operate: remove the nut from the tapered bolt that holds the shock absorber link. Place the wedge shaped fork between the link and shock absorber arm and a few sharp blows with a hammer forces the tapered bolt out of the arm.

Satin nickel finish, polished ends. Length 15". Weight 1½ lbs.

LIST PRICE, each.....\$3.50

Shock absorber links should not be removed by driving against the bolt with a hammer because threads become mutilated and also there is too much spring in the arms. This newly designed tool is specially built to do this difficult job with a minimum of energy and time.

The long tapered prongs are accurately sized to readily wedge between the parts and quickly separate them. Equally efficient for separating tie rod joints.



Shock Absorber Spanner 2362

For Ford V-8 Late Models

Drop Forged from Chrome Molybdenum Steel

All 1937 and later Ford models are equipped with new type shock absorbers for which this Spanner is specially designed. Necessary for adjusting, tightening, removing and replacing packing nuts.

Finished in satin nickel with polished faces. Knurled handle. Length 9". Weight 4 ozs. 6 to the box.

LIST PRICE, each.....\$1.65

The packing nuts on the new Ford shock absorbers require this hook spanner wrench for removing, replacing, tightening and adjusting. These packing nuts must be tightened occasionally to prevent leakage. It also acts as an adjustment and this Special Spanner is necessary because it is built the right length to service all four shock absorbers.



Tie Rod Tool No. 2350

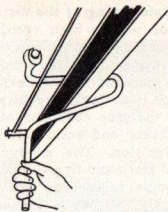
For Ford V-8

Drop Forged from Chrome Nickel Steel

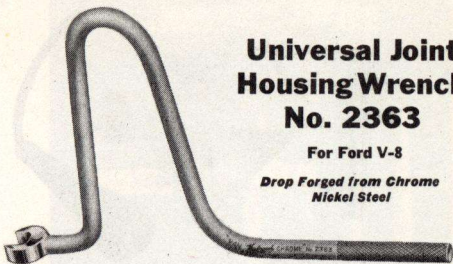
Length 7½". Thickness of blades ¾". Width of blades 1⅜". Weight 6 ozs. Packed 6 to the box. Satin nickel finish.

LIST PRICE, each.....\$1.30

Close coupled for cramped quarters, the double end special offset bits work perfectly and efficiently on V-8 tie rod adjustments as well as other makes of cars. The bits are accurately sized to snugly engage the slots for which they are intended. Also a time saver for filler plugs on Chevrolet and Pontiac shock absorbers.



The only tool that will reach the two bottom cap screws on the Ford V-8 universal joint housing. These screws, particularly on the 1935 and 1936 models, cannot be reached either from top or bottom and the position of the radius rods makes them inaccessible with an ordinary wrench.



Universal Joint Housing Wrench No. 2363

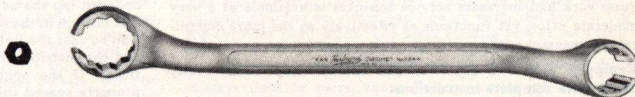
For Ford V-8

*Drop Forged from Chrome
Nickel Steel*

The unique bends of this Special Wrench clear the radius rods and all obstructions and give ample throw simplifying this otherwise impossible job.

Length 13". Throw 8". Weight 1 lb. 5 ozs. Satin nickel plated.

LIST PRICE, each.....\$2.50



Mechanics have always experienced difficulty and loss of time when adjusting headlights due to interfering wires. The 12-point, box type slotted heads permit adjusting or removing the headlight and horn nuts without disconnecting the wiring. Extra rigid jaws prevent springing off the nut when pressure is applied.

Headlight Wrench No. 2344V

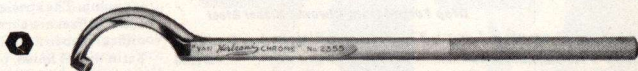
For Ford V-8, Hudson and Studebaker

Drop Forged from Chrome Molybdenum Steel

No. 2344V, openings $1\frac{1}{16}$ " and $1\frac{1}{10}$ ", fitting headlight nuts on all V-8's including 1936 models.

Satin nickel finish, polished heads. Length 12". Weight 13 ozs.

LIST PRICE, each.....\$1.90



Gas Tank Spanner No. 2355

For Ford V-8 up to 1937 Models

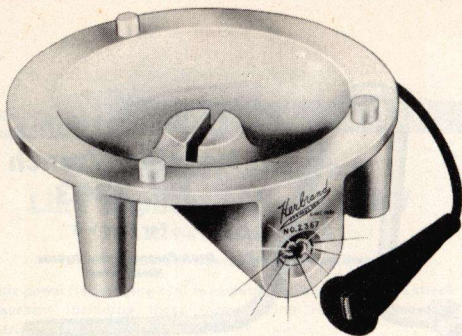
Drop Forged from Chrome Molybdenum Steel

The packing nut on the filler pipe of the gas tank cannot be successfully removed or tightened without this Spanner. Essential to stop leakage or remove and replace the left rear fender.

Finished in satin nickel, polished faces. Knurled handle.

Length $12\frac{1}{2}$ ". Weight 9 ozs. Packed 6 to the carton.

LIST PRICE, each.....\$1.70



No. 2367

Distributor Timing Synchronizer

For Ford V-8 Models

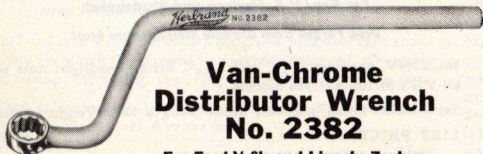
Gives Quick, Dependable Analysis

This modern, scientific testing device which saves time, prevents guesswork and increases service business is available at a very moderate price, yet functions as effectively as the more complicated expensive types.

Equipped with two batteries and Mazda lamp. Individually boxed with complete instructions.

Attractively nickel plated. Diameter $5\frac{1}{4}$ ". Weight 2 lbs. 12 ozs.

LIST PRICE, each.....\$7.60



Van-Chrome Distributor Wrench No. 2382

For Ford V-8's and Lincoln Zephyr

Drop Forged from Chrome Nickel Steel

12-point $\frac{1}{2}$ " opening. Length 8". Offset 3". Weight 5 ozs.

LIST PRICE, each.....\$1.80

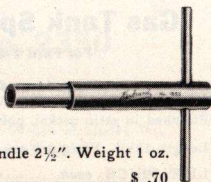
Carburetor Jet Wrench No. 1955

Oblong Opening for Ford V-8

Hot Forged and Heat Treated

Satin nickel finish. Length $2\frac{1}{2}$ ". Handle $2\frac{1}{2}$ ". Weight 1 oz.

LIST PRICE, each.....\$.70

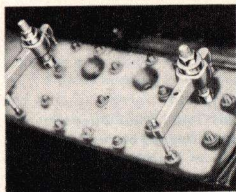


Accurate timing of the distributors of today's high speed engines is the key to the successful performance of the modern motor car. An ignition expert's service is no longer required to show the true condition of the distributor and accurately time the ignition. The newly perfected Herbrand Synchronizer is so simple to use and works so perfectly that any mechanic can give the customer a quick, dependable analysis of the ignition and timing condition.

For a perfect test, distributor or breaker points must first be properly spaced. Place distributor on the Synchronizer with coil in place making sure that distributor seats firmly on all three posts. Loosen the distributor adjusting screw and turn until light flashes on, then tap the adjusting screw just enough in the opposite direction so that the light will go out and the distributor is accurately timed. If the points have been properly spaced this tool checks the distributor in one position which automatically times it in all other positions.

Necessary for removing or replacing the distributors on V-8 Fords including 1939 models; also for Lincoln Zephyr. Works also on 1937 Lincoln Zephyr water pump. The special angle bends and 3" offset are correct to do this difficult job in a minimum of time. Satin nickel finish, polished head.

A necessary tool with an oblong hot forged socket opening to adjust the carburetor jets. Designed with the necessary length and the proper thinness for speed and efficiency. Carburetors are often damaged or thrown out of adjustment by using makeshift tools.



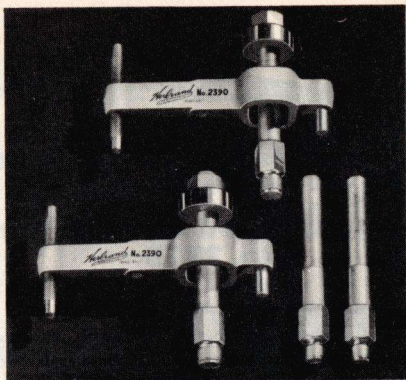
Mechanics encounter difficulty and resulting loss of time when removing aluminum heads on Ford V-8's because of corrosion and rusting of studs. Parts are frequently damaged because heads are on so tight that "chisel and pry" methods are applied which cause costly replacements due to breaking heads and cracking blocks. This specially designed Herbrand Puller removes the head with an even, positive pull regardless of how tight they may be sealed to the block. The cost of these pullers will be saved on the first job and they lick flat rates to a standstill.



With this pusher and puller it is unnecessary to disassemble the entire rear end on the Ford V-8 in order to service the pinion shaft, bearings and pinion.

To remove the shaft: First take off pinion bearing adjusting nut, place tool in position with the forcing screws against the banjo housing, replace bearing adjusting nut and tighten against body of tool to hold it in place. Turn forcing screws and pinion shaft is quickly removed.

To replace the shaft: Place bearing adjusting nut on shaft, use forcing screws in reverse position and turn them into the tapped holes in the housing, then force the body of the tool against the adjusting nut by turning down the hex nuts on the stud until the pinion is pushed into place.



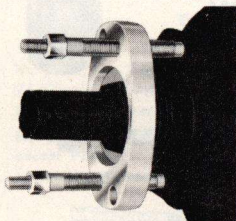
Ford Cylinder Head Puller 2390

For Easy Lifting of Rusted and Corroded Heads

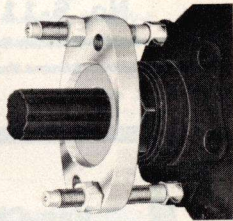
Drop Forged and Heat Treated

The cross-arms of these Pullers bridge the cylinder head. The adjusting screws on either end line up with, and rest on top of, the cylinder head studs. The main forcing screws turn into the spark plug holes, then pressure is applied to the hex pulling nuts alternately with a wrench and the head responds quickly. Always used in pairs, these Pullers consist of 2 cross-arms, equipped with 2 adjustable leveling studs; 2 collars; 2 hex turn down nuts and 4 forcing screws: 2-14mm for V8-60 and 2-18mm for V8-85. For V8-85 use leveling stud in end of cross arm; for V8-60 use center stud hole. Satin nickel. Weight 5 lbs.

LIST PRICE, complete.....\$13.20



Removing



Replacing

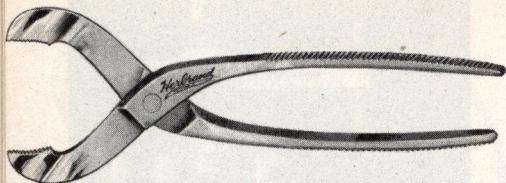
Ford Pinion Shaft Remover and Replacer No. 2366

Drop Forged from Chrome Nickel Steel

Finished in satin nickel. Weight 2 lbs. 4 ozs.

LIST PRICE, each.....\$7.15

Refer to page 63 for Special Ford Stud Removers



Connecting Rod Bearing Plier No. 2375

For Late Ford V-8 Models

Drop Forged from Chrome Nickel Steel

Satin nickel, polished heads. Length 9". Weight 8 oz. 6 to the box.

LIST PRICE, each.....\$2.75

This Two-In-One Plier tests the connecting rod bearings for looseness on both models 60 and 85 V-8 Ford. Ordinarily two tools are necessary. The plier grips the shoulder of the bearing and by turning, the operator immediately determines the correct fit.



Ford Connecting Rod Wrench No. 2343

Forged from Chrome Vanadium Steel

Satin nickel. Opening $\frac{1}{16}$ ". Length $9\frac{1}{4}$ ". 6 to the box. Weight 1 lb. 6 ozs.

LIST PRICE, each.....\$1.40

A long, slender wrench of T handle design for connecting rod work on V-8 Fords except V8-60 model. It has a very thin wall and is $9\frac{1}{4}$ " long to provide the necessary reach. The T cross bar is 10" long. Not guaranteed due to extreme thinness.



Connecting Rod Socket No. S-118V

For Ford V-8 Models Except V8-60

Hot Forged from Chrome Molybdenum Steel

LIST PRICE, each.....\$.85



Special, extra thin wall Socket with $\frac{1}{16}$ " twelve point hot forged opening. Standard sockets will not handle this job. Due to extreme thinness necessary this socket is not replaceable. Has $\frac{1}{2}$ " square drive connection.



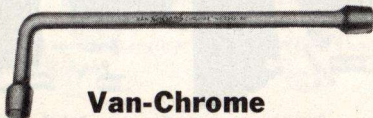
Van-Chrome Connecting Rod Wrench 2343-60

For Ford 60 Model

Forged from Chrome Vanadium Steel

Satin nickel plated, polished heads. Openings $\frac{3}{16}$ " hexagon tapered sockets. Length 11". Weight 12 ozs. 6 to the box.

LIST PRICE, each.....\$1.60



A double end wrench, with 3" offset bent at right angles, has duplicate 6 point $\frac{3}{16}$ " openings with extra deep, very thin walled, tapered sockets for clearance. First apply short, offset end for leverage to break nut loose, then reverse wrench and spin off nut. This wrench is necessary for efficient work on new Ford 60 connecting rod nuts. Expertly forged and heat treated for long life.

Heads are set at the correct angle for easy access and have a $\frac{1}{16}$ ", 8-point opening in one end and a $\frac{3}{4}$ ", 12-point opening in the other. Has the necessary $15\frac{1}{2}$ " length for reach and clearance on all main bearing bolts.



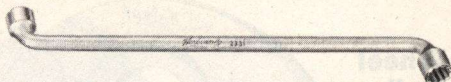
On Ford V-8 the main bearing bolts are reversed and set in deep countersunk holes. The 8-point $\frac{1}{16}$ " openings in this Special Wrench are hot forged to fit the square bolt heads regardless of position, because there is sufficient flexibility in the spring tension construction feature to hold both tool and bolts even though working in an upside down position.



12-point openings, extra thin walls— $\frac{1}{2}$ " square drive connections to fit standard handle units. Other sockets for Ford service work including deep spark plug, pan service and sockets for nearly every application will be found on pages 8 to 22.



Built for easy access to the main bearing nuts on the Ford 60 model. It has nominal openings of $2\frac{1}{32}$ " 6-point extra deep sockets on each end, specially sized and shaped to fit the tapered nuts, and has the correct bend and length of handle for clearance and power.



Main Bearing Wrench No. 2331

For Fords A, AA, B, BB, V-8 Except Model 60

Forged from Chrome Vanadium Steel

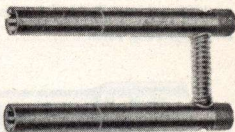
Satin nickel finish with polished heads. Length $15\frac{1}{2}$ ". Weight 1 lb. 3 ozs. 6 to the box.

LIST PRICE, each.....\$2.20

Main Bearing Bolt Holder No. 2336

For Ford V-8 Except Model 60

Hot Forged from Chrome Alloy Steel



This tool is essential to hold the main bearing bolts from turning while adjustments are made. Used efficiently with Wrench No. 2331.

Length $8\frac{1}{2}$ ". Weight 2 lbs. 14 ozs. Satin nickel finish. Knurled.

LIST PRICE, each.....\$3.50



Ford Connecting Rod and Main Bearing Sockets

For Ford Models A, B and V-8

Hot Forged from Chrome Molybdenum Steel

No. S-121, $2\frac{1}{32}$ " opening for Ford A and B connecting rod and V8-60 main bearing nuts.

LIST PRICE, each.....\$.80

No. S-124, $\frac{3}{4}$ " opening for rear main bearing work on all Fords except V8-60.

LIST PRICE, each......85



Ford Model 60 Main Bearing Wrench 2331-60

Forged from Chrome Vanadium Steel

Length $11\frac{3}{4}$ ". Weight 12 ozs. Satin plate, polished heads. 6 to box.

LIST PRICE, each.....\$1.80

Wheel Puller Adaptor 825A



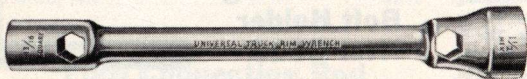
For Late Models Ford V-8

Drop Forged from Chrome Vanadium Steel

No. 825A Adaptor converts any stud type wheel puller for service on 1936 and later Ford V-8 hubs. Weight 3 lbs. Nickel plated.

LIST PRICE, each.....\$4.10

Space two pulling arms on any stud type wheel puller to engage the bolts of the Adaptor; slide the entire assembly into the groove in the hub and turn up the forcing screw of the wheel puller. This applies a straight steady pull, eliminating danger to the operator and damage to parts. Nuts are not supplied with the Adaptor. See page 46 for Puller.



Ford Truck Rim Wrench 1152F

Complete for Trucks—Three Opening Sizes

Forged Solid—No Welds

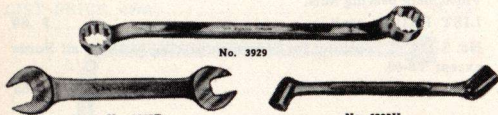
Forged from solid bars of select steel, with extra deep powerful sockets, expertly heat treated to withstand gruelling punishment and finished in satin nickel.

Wrench openings, $1\frac{1}{16}$ " square, $1\frac{1}{8}$ " hex and $1\frac{1}{2}$ " hex. Length 15 $\frac{3}{8}$ ". The Hex Leverage Bar is 20" long. Weight 7 lbs.

No. 1152F, Wrench and Handle.

LIST PRICE, complete.....\$3.05

Equipped with the three necessary opening sizes to make it a complete Rim Nut Service Wrench for all Ford trucks. The deep openings are forged accurately for quick and positive engagement of the wheel nuts. The 20" hexagon leverage bar, which is supplied as a part of this set, exerts a power that no nut can resist.



Ford V8 Service Wrenches

Drop Forged from Chrome Vanadium Steel

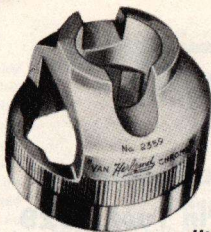
No. 6827V, Swivel Box Wrench. 12-Point Sockets $\frac{5}{8}$ " & $1\frac{1}{16}$ ". LIST PRICE, each.....\$2.70

No. 3929, Special Box Wrench. 12-Point openings $\frac{5}{8}$ " & $1\frac{1}{16}$ ". LIST PRICE, each.....1.25

No. 1027F, Special Open End Wrench. Openings $\frac{5}{8}$ " and $1\frac{1}{16}$ ". LIST PRICE, each.....1.10

A triple combination unsurpassed in general service work on Ford V-8's. Three distinct types, No. 6827V, with 12-point openings and swivel heads that swing to any position; No. 3929, Box Wrench with special angle, and No. 1027F, open end, all of which combine $\frac{5}{8}$ " and $1\frac{1}{16}$ " openings which service 80% of the nuts daily encountered.

The radiator need not be removed to reach the fan pulley nut with this special Socket. Simply insert a standard crank handle after the Socket is seated on the nut. Essential on late models where the fan pulley must be loosened to drop the pan.

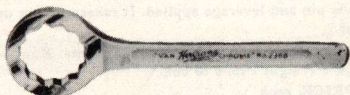


Van-Chrome Fan Pulley Socket No. 2359

For All Ford Models Except V8-60

Hot Forged from Chrome Molybdenum Steel

12-point opening $1\frac{3}{8}$ ". Satin nickel. Weight 4 ozs. 6 to the box.
LIST PRICE, each.....\$1.60



Unusually efficient for removing fan pulley nuts on all V-8 models, except the 60 horsepower, and essential when fan pulley must be loosened for dropping the pan. Place wrench on fan pulley nut, brace handle on frame cross-member, step on starter and nut will turn off automatically.

Fan Pulley Nut Wrench No. 2368

For Ford V-8 Models Except V8-60

Drop Forged from Chrome Vanadium Steel

12-point $1\frac{3}{8}$ " opening. Satin nickel finish with polished head. Length 8". Weight 8 ozs. 6 to the box.
LIST PRICE, each.....\$1.80



Ford Battery Hold-Down Bolt Wrench No. 2342

Forged from Chrome Vanadium Steel

Necessary to reach the hold-down nuts on batteries that are located under the dash on certain Ford Models. It has a $\frac{9}{16}$ " extra deep 6-point tapered socket.

Satin nickel, polished head. Length 7". Handle 4".
Weight 10 ozs. Packed 6 to the box.
LIST PRICE, each.....\$1.40



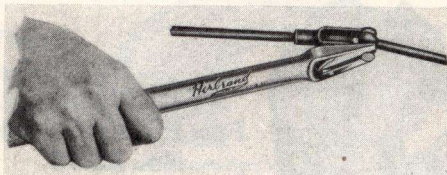
Water Pump Spanner 2383-60

For Ford 60 Model

Drop Forged from Chrome Vanadium Steel

The new 60 Ford requires this special Spanner Wrench to service the water pump gland nut. Other wrenches cannot reach into the confined space behind the fan pulley and only the special bend of this Spanner will locate and grip the hidden and obstructed socket readily.

Satin nickel. Length 11". Weight 6 ozs. 6 to the box.
LIST PRICE, each.....\$1.50



Brake Rod Clevis Pin Tool 2329

For All Model Fords

Drop Forged and Heat Treated

The wedge shaped fork of this tool is driven behind the head of the clevis pin and leverage applied. It takes any pin up to $\frac{3}{16}$ " diameter.

Finished in satin nickel with polished points. Knurled handle. Length 9". Weight 1 lb. 6 to box.

LIST PRICE, each.....\$2.50



Van-Chrome No. 2333V Ford V-8 Brake Wrench

Special Offsets—Extra Long Reach

Drop Forged from Chrome Alloy Steel

The unique offsets on this special wrench clear the obstructions encountered in adjusting the Ford V-8 brakes. Fits all models except those with hydraulic brakes. The extra long handle gives greater leverage.

Satin nickel finish, polished heads. 8-point openings, $\frac{7}{16}$ " for passenger cars and $\frac{1}{2}$ " for trucks. Length 15". Weight 13 ozs. 6 to the box.

LIST PRICE, each.....\$2.20



Ford Brake Wrenches

For Models A, AA, B, BB and V-8

Drop Forged and Heat Treated

8-point openings $\frac{7}{16}$ " and $\frac{1}{2}$ ". Finished in satin nickel with polished heads.

No. 2333, Chrome Vanadium Steel. Length 11". Weight $7\frac{1}{2}$ ozs.

LIST PRICE, each.....\$1.30

No. 2332, same as above but forged from Carbon Steel. Wgt. 14 ozs.

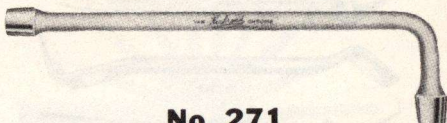
LIST PRICE, each......80

Brake rod clevis pins are usually so rusted and corroded that they cannot be driven out with a punch. The limited space does not permit a sufficient hammer swing and the rod does not furnish support for a solid blow. When major brake adjustments are made, it is necessary to pull these clevis pins and this tapered fork wedge forces them out easily.

Adjusting brakes on the new V-8 with the ordinary straight wrench is a very dirty, messy and difficult job. This new wrench was designed with special bends and offsets to easily reach behind the wheel and tire. It clears shock absorber arms, brake drums and other obstructions, leaving the operator's hands free to do a perfect job of adjusting quicker and easier. The 15" length provides the extra leverage to break loose frozen and corroded nuts.

Lightness and thinness with maximum strength are some of the outstanding features of these wrenches. The 8-point openings of $\frac{7}{16}$ " and $\frac{1}{2}$ " slip over the square nuts in a positive way, gripping them at any angle and permitting either a short or full turn.

When brake adjustments must be made through the drum either inside or outside the wheel this wrench will be found invaluable. It has a special 2½" offset and is ideal to fit the adjusting nuts on Bendix and Steeldraulic internal brakes. Also well suited for connecting rod service on Ford V-8. Not guaranteed against breakage because of the extreme thinness.

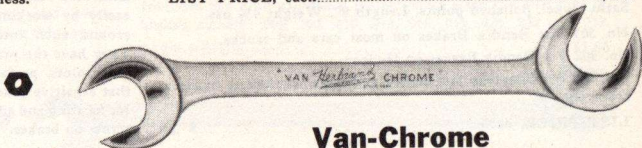


No. 271 Offset Socket Brake Wrench

Forged from Chrome Vanadium Steel

Satin nickel with bright heads. 6-point openings ⅜" and ⅞". Length 11½". Weight 13 ozs. 6 to the box.

LIST PRICE, each.....\$1.60



Van-Chrome Special Angle Brake Wrenches

22½° and 62½° Angle Heads

Drop Forged from Chrome Vanadium Steel

The narrow pointed jaws are especially designed for clearance and angled to easily reach and turn brake nuts where space is limited.

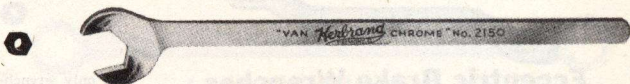
Each end has the same size opening one set at 22½° the other at 62½° providing the maximum efficiency for brake service work. While primarily built for better and quicker results on brake work these handy wrenches carry the popular opening sizes that make them ideal general purpose wrenches to serve a wide variety of difficult operations.

Wr. No.	Size Openings	For U.S. Std. Nuts	For Hex Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	L'gth	Weight Per Doz. Lbs. Ozs.	List Price Each
281	⅜ & ⅞	..	⅜	⅜	¼	6¼	2 4	\$1.20
282	⅝ & ⅞	..	⅞	⅞	¼	6¼	2 4	1.20
283	1⅞ & 1⅞	⅝	1⅞	1⅞	⅝	7⅞	4 4	1.50
284	⅞ & 1⅞	1⅞	1⅞	1⅞	⅝	7⅞	4 4	1.50
285	1⅞ & 1⅞	1⅞	1⅞	1⅞	⅝	8⅞	5 4	1.75

Packed six to the box

BRAKE SET No. 280, 1 each of the above. Weight 1 lb. 14 ozs.

LIST PRICE, in pocket leatherette roll.....\$7.85



An extremely popular and necessary Brake Wrench that should be in every mechanic's set to service the brakes on all Chrysler built cars. The very deep 1⅞" hexagon opening takes a firm grip on the adjusting nuts avoiding slippage and the thin, narrow heads make them extremely efficient for fast work.

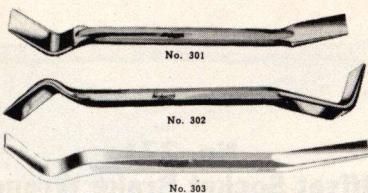
Brake Adjusting Wrench 2150

For Chrysler, Plymouth, DeSoto, Dodge

Drop Forged from Chrome Vanadium Steel

Hexagon opening 1⅞". Satin nickel finish, polished head. Extra long handle 14" for powerful leverage. Weight 10 ozs. 6 to box.

LIST PRICE, each.....\$1.40



Star Nut Brake Tools

3 Types—Thin, Narrow, Wide Contact Points

Drop Forged from Chrome Alloy Steel

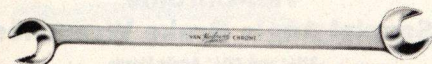
Satin nickel, polished points. Length 8". Weight 4½ ozs.

No. 301 For Bendix Brakes on most cars and trucks.

No. 302 For Bendix Brakes on Hudson.

No. 303 For Chevrolet late models and other cars having a narrow brake slot.

LIST PRICE, each.....\$.80



Eccentric Brake Wrenches

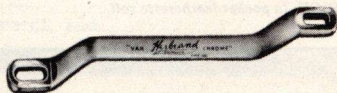
Open End—15° Angle Heads

Drop Forged from Chrome Vanadium Steel

Finished in satin nickel with bright polished heads.

Wrench No.	Size Openings	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
261	3/16 & 1/4	3/32	9	2 ..	\$1.40
262	3/16 & 5/16	3/32	9	2 12	1.40

Packed 6 to the box



Eccentric Brake Wrenches

Elongated Box Type Openings

Drop Forged from Chrome Vanadium Steel

Finished in satin plate with heads polished.

Wrench No.	Size Openings	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
195	3/16 & 1/4	5	1 8	\$1.20
196	3/16 & 5/16	6	3 ..	1.30
197	3/8 & 1/2	6	3 ..	1.30

Packed 6 to the box

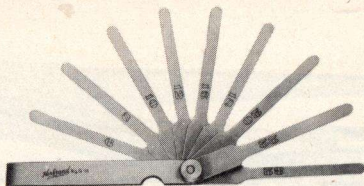
Herbrand Star Nut Brake Tools are available in 3 distinct patterns providing 6 different angles and bends to cover the most complete range of usage.

Clear obstructions such as shock absorbers and frame fittings easily by working through and around such interfering parts. They have the proper sized contact points, perfect balance and that sensitive touch so necessary for locating and adjusting the cog screw on brakes.

The two sizes of Herbrand Eccentric Brake Wrenches carry the four necessary openings to adjust the eccentric cam on Bendix Internal Brakes. They are 9" long, thin and strong and handle this important adjustment easily and effectively. The heads are narrow and pointed, the handles slim and thin.

The only wrenches of this type built, they have elongated box type openings that fit perfectly the slab head on brake eccentrics. Available in six opening sizes to fit Bendix, Lockheed and most truck and bus brakes. The unique offset makes it possible to hold the eccentric in exact position while the lock nut is being tightened.

A very important addition to the Brake Tool Line. It is the **ONLY** brake adjusting gauge to go on the market that will work on all cars for clearance between the brake shoe and the drum. The blades are 4" long, which is the proper length for maximum efficiency and ease of handling. Hydraulic brakes must be thoroughly equalized to insure efficient operation and safety, and every mechanic should have this special new gauge.

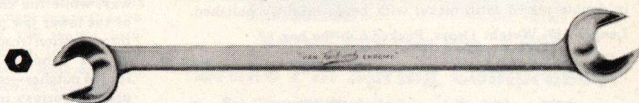


Brake Adjusting Feeler Gauge No. G-14

9 Necessary Thicknesses
Imported Swedish Steel

Includes the nine necessary feeler gauge sizes for all types of brakes, namely: .006, .008, .010, .012, .015, .018, .020, .022 and .032.

LIST PRICE, each.....\$1.65



Every mechanic has frequent need for Extra Long Wrenches. Primarily designed to reach and turn the anchor nuts on Bendix and other mechanical brakes, both external and internal, they have extra length to provide ample leverage for heavy duty general service. To adjust brakes correctly, U bolts, shackle bolts and spring perch nuts must first be properly tightened and these three wrenches will be found invaluable for this work. The extra long handles make them useful for many other jobs.

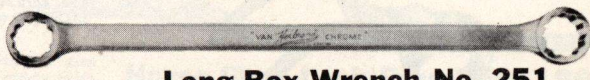
Van-Chrome Extra Long Brake Wrenches

22½° Angle—for Brake Adjustments
Drop Forged from Chrome Vanadium Steel

Narrow, pointed jaws and slender handles for maximum accessibility. Finished in satin nickel with mirror polished heads.

Wt. No.	Size Openings	For U.S. Std. Nuts	For Hex. Cap Screws	For S.A.E. Nuts and Cap Screws	Thickness Heads	Length	Weight Per Doz. Lbs. Ozs.	List Price Each
241	¾ & 7/8	..	½ & 5/8	½ & 9/16	7/16	15	12 12	\$3.10
242	1 1/16 & 1 1/8	..	5/8	5/8 & ¾	7/8	16	19 8	3.30
243	1 & 1 3/8	¾	¾ & 7/8	1 1/16 ..	7/2	16	19 8	3.30

Packed six to the box



Long Box Wrench No. 251

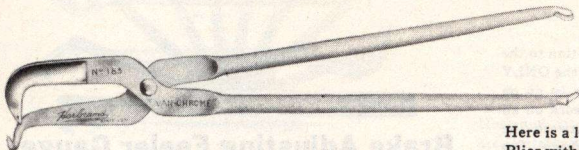
Special for Brake Work
Drop Forged from Chrome Vanadium Steel

Engineered to clear obstructions and operate efficiently even where nuts are countersunk. Fitting the anchor studs on internal mechanical brakes, it will also be found very useful for heavy duty work on tractors and large trucks. The 15" length is very essential.

The 12-point openings fit 5/8" and 3/4" S.A.E. nuts and Cap Screws; also 5/8" U.S.S. bolt size. Ideal for anchor nuts on Buick and Pontiac hydraulic brakes.

Satin nickel, polished heads. 12-point openings 1 1/16" and 1 1/8". Offset heads 5/8", 15° angle. Length 15". Weight 1 lb. 6 to the box.

LIST PRICE, each.....\$2.90



Van-Chrome Brake Spring Plier No. 183

13" Long for Heavy Duty Service

Drop Forged from Chrome Molybdenum Steel

Strengthened by exacting heat treatment. Handsomely finished in double plated satin nickel with heads brightly polished.

Length 13". Weight 11 ozs. Packed 6 to the box.

LIST PRICE, each \$3.30



Brake Spring Plier No. 182

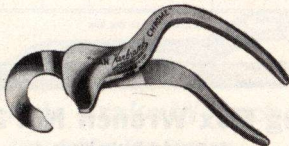
8½" Long

Drop Forged from Chrome Alloy Steel

Satin nickel finish with heads polished to a high lustre.

Length 8½". Weight 6 ozs. Packed 6 to the box.

LIST PRICE, each \$2.00



Van-Chrome Brake Plier No. 272

Special Curved Handles for Steeldraulic Brakes

Drop Forged from Chrome Alloy Steel

Nickel plated with bright heads. Length 5½". Weight 5 ozs.

LIST PRICE, each \$2.30

Here is a large size Brake Spring Plier with a generous capacity of jaw opening for the quick and easy removal and replacement of brake shoe springs on practically all cars with internal brakes.

The sharp point of the goose neck curve of the upper jaw anchors on the brake lining in a positive way, while the cork screw hook of the lower jaw pulls the spring into position readily. The ends of the handles have different forged notches—one end slips the upright springs into position on the stud, the other end removes them easily. Also ideal for removing cotter pins.

Works efficiently on smaller springs where extra long handles would be awkward. The cork screw hook on the lower jaw lifts the spring easily with a secure grip and the sharp pointed goose neck curve of the head grips the brake band in a positive way. The cork screw hook is also adapted to cotter pin removal.

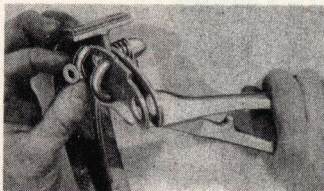
Designed to reach and get a positive hold on the knurled brake adjusting nuts used on various models of Auburn, Hupmobile, Oakland, Nash, Pontiac and other cars equipped with steeldraulic brakes. Every mechanic realizes its importance.



Patent Applied For

New — distinctive — original — and the simplest and quickest means of removing the special tension lock-washers used on the Huck brakes of all 1936 and later Chevrolet cars. A one-man tool that compresses the brake pin spring for instant removal or replacement of the special lock-washers that fit into the pin groove. Saves at least *one hour* on every brake relining job.

To reline these brakes it is necessary to remove the eight lock-washers and, by the common method, either two men were required or it was necessary to compress the springs with a vise and two small wood blocks. Replacement also was exceedingly difficult because of the extreme spring tension, and either method was tedious and time-consuming. Each job necessitates a repetition of this operation 16 times.



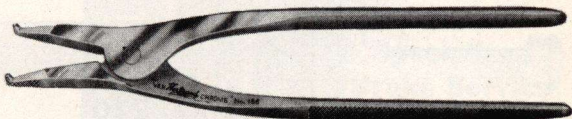
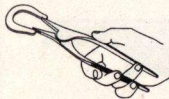
Van-Chrome No. 188 Brake Pin Spring Compressor

**For Chevrolet Huck Brakes—A Real Time-Saver—
Will Pay For Itself on the First Job**

Drop Forged from Chrome Vanadium Steel

A newly invented Herbrand Tool that saves at least *one hour* of time on every Chevrolet brake relining job. Eliminates the tedious and unsatisfactory practice of using a vise, or other make-shift methods, in compressing the springs to remove or replace the 8 lock-washers (16 operations) which fit the grooved pins. With Plier No. 188, one man can do this job perfectly in not to exceed *eight minutes*.

Satin nickel finish. Length 11". Weight 14 ozs. Packed 6 to box.
LIST PRICE, each.....\$3.30



Developed to spread the snap lock-rings used so widely today on brakes, transmissions, differentials, pedal shafts, clutch shafts, fan pulley shafts and especially adaptable for spreading brake keys when removing them from the assembly. It is almost impossible to spread these lock rings with a screw driver or other make-shift methods because they are loose on the shaft and turn easily.

Horse Shoe Lock-Ring Plier 186

For Removing Horse Shoe Lock Rings

Drop Forged from Chrome Molybdenum Steel

Especially adaptable for lock-rings used on Chrysler hydraulic brakes and Plymouth brake anchor pins.

Toothed on the outside of the jaws to prevent slipping. Will spread any lock washer up to 1¼". Handles are knurled.

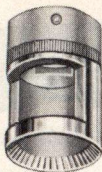
Satin nickel, polished heads. Length 8¾". Weight 12 ozs.

LIST PRICE, each.....\$2.10

Brake Shoe Spring Cup Compressor No. J-43

For Bendix and Lockheed Brakes

Chrome Molybdenum Steel

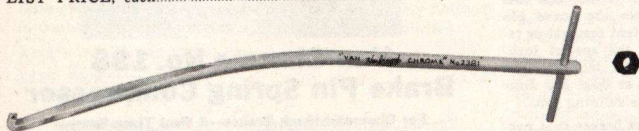


The hot forged socket has a bevelled opening and is properly toothed to firmly grip the washer and turn it readily without slipping. One side is cut away to give the operator perfect vision and full control of the work. Any Junior Series socket handle will fit the $\frac{3}{8}$ " drive end.

Satin nickel finish. Height 4". Width 6". Weight 9 ozs.

LIST PRICE, each.....\$.85

The brake shoe hold down springs on hydraulic brakes have a retaining cup lock washer that is very difficult to remove and replace. Herbrand has perfected a cut-away type socket end tool for releasing these troublesome cup lock washers with a simple twist of the wrist and without loss of parts or injury from flying springs.



Brake and Clutch Pedal Spring Hook No. 2381

For Late V-8 Models

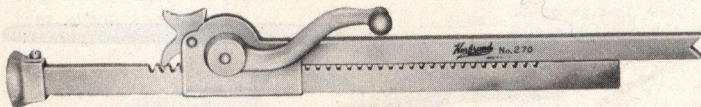
Drop Forged from Chrome Molybdenum Steel

Brake pedal return springs are easily hooked up with this practical tool. Heat treated throughout and plated in satin nickel.

Length 14". Weight 5 ozs. 6 to the box.

LIST PRICE, each.....\$1.80

Hooking up the brake pedal springs is extremely difficult because they have to be reached through the hole in the cross member of the frame or by reaching underneath. The entire tool is correctly curved to avoid the usual fishing around and the hook is drilled to readily engage the end of the spring and firmly hold it while pulling into position.



Brake Pedal Depressor No. 270

For Brake Adjustments on All Cars

Automatic Lock—Ratchet Action Handle

A "One-Man" Tool that depresses the brake pedal and holds it at any required position. Also used to hold up the oil pan while bolts are being replaced, to test the looseness of main bearings and to lift the weight of flywheel or crankshaft.

To operate, place the base against the heel board and the notched end on the pedal and adjust by turning the ratchet action crank.

Satin finish. Adjustable length $15\frac{1}{2}$ " to 25". Weight $2\frac{3}{4}$ lbs.

LIST PRICE, each.....\$4.10

The smooth running rack and pinion are operated by a ratchet crank that locks automatically. Where floor boards interfere with a full turn of the crank a simple outward pull on the handle brings the ratchet action into play and the adjustment is made with a half or quarter turn.

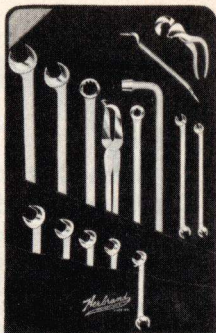
The development of improved brakes on modern motor cars has increased service work and created a definite demand for special tools for the scientific adjustment of brakes to conform to safety standards. After careful study of brake requirements based upon the combined experience of outstanding brake specialists Herbrand offers the most efficient Brake Tools available. Each wrench is individually designed for its particular job and has the proper leverage, thinness and angles of heads to clear obstructions. They simplify this work and eliminate the complications that result from the use of ordinary tools.

Perfect brakes are a vital necessity under today's traffic conditions and car owners will appreciate the quick and safe brake adjusting service they can get from mechanics equipped with "Van-Chrome" Brake Tools.

Only modern, specialized brake tools make it possible for you to meet the new competition of one-stop service stations who are intensively driving for this profitable service work.

This board represents not just an ordinary collection of tools but a highly specialized assortment for the scientific adjustment of brakes to conform to safety standards.

Herbrand Van-Chrome Brake Tool Set No. BR-15

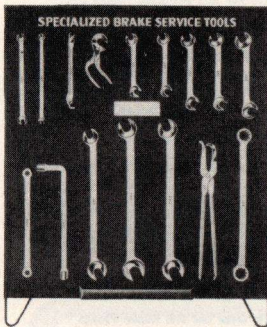


It cares for the required adjustments on all the internal expanding and external brakes. The proper tools are included for Bendix, Lockheed-Hydraulic and Midland Steeldraulic, also individual styles of mechanical brakes. All tools drop forged and finished in satin nickel with polished heads.

SET No. BR-15 contains 15 "Van-Chrome" Brake Tools, Nos. 183, 241, 243, 251, 261, 262, 271, 272, 281, 282, 283, 284, 285, 301 and 2333, described in detail on pages 124 to 130. Weight 8 lbs. 5 ozs.

LIST PRICE, in fibre box.....\$28.55

LIST PRICE, in 15 pocket leatherette roll, flannel lined.. 30.25



Specialized Brake Service Tool Board No. SS-16

Carries one each of the following Specialized Brake Service Tools, Numbers 183, 241, 242, 243, 251, 261, 262, 271, 272, 281, 282, 283, 284, 285, 301 and 2333; sixteen tools in all, which are described in detail on pages 124 to 131. The board is fabricated from heavy gauge steel and finished in baked blue enamel. The round grip handle in the center permits carrying right to the job.

Size of board 27" x 32". Weight, tools and board 32 lbs.

LIST PRICE, tools.....\$31.85; board.....\$7.50; complete.....\$39.35



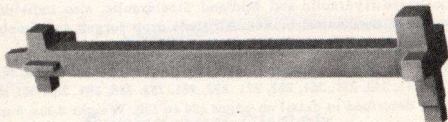
Van-Chrome No. 2373 Crankcase Drain Plug Wrench

For 1939 Ford and Mercury Cars

Drop Forged from Chrome Molybdenum Steel

2" hexagon opening accurately sized to perfectly fit the special plug. Designed with a unique bend to clear all obstructions. The 11" handle provides plenty of leverage. Plated in satin nickel with polished faces. Weight 1 lb. Packed 6 to the box.

LIST PRICE, each.....\$1.90



Drain Plug Wrench No. 193

Ten Tools In One for All Female Plugs

Drop Forged from Chrome Alloy Steel

Light in weight, compact, easy to handle, and designed to save time on oil changes. The lugs are forged accurately to size assuring perfect fit. Provides powerful leverage to easily remove stubborn plugs. Heat treated and satin nickeled.

Length 9". Weight 14 ozs. 6 to the box.

LIST PRICE, each.....\$1.70



Drain Wrench No. 194

Seven Wrenches In One for All Male Plugs

Drop Forged from Chrome Alloy Steel

The precision openings insure a perfect fit and prevent mutilating or distorting plugs. Heat treated and finished in satin nickel. Four different 6-point and three different 8-point openings in one wrench which fit practically all drain plugs.

Length 9". Weight 11 ozs. 6 to the box.

LIST PRICE, each.....\$1.90

Every service station, garage and maintenance shop needs this New Oil Drain Plug Wrench because the crankcase drain plugs on the 1939 Ford V8 and Mercury cars cannot be reached with ordinary wrenches.

This wrench is drop forged from Chrome Molybdenum steel — not a stamping or casting. It is precision made for perfect fit and will give unlimited service under hard, daily usage.

No more lost time searching for special drain plug sockets and handles. Here, combined in one wrench, are the ten different sizes of lugs required to service all countersunk drain and filler plugs in the clutch, crankcase, transmission and differential on most automobiles and trucks.

A solid drop forged tool with accurately sized lugs.

A new drop forged Drain Plug Wrench, designed by Herbrand to fit the male plugs on crankcase, transmission and differential of practically all cars. It has seven different 6-point and 8-point openings combined in one wrench, properly sized to fit all late popular models including Ford, Chevrolet, Pontiac, Plymouth, Dodge, Buick, Studebaker, Oldsmobile, Nash, Packard and other makes.

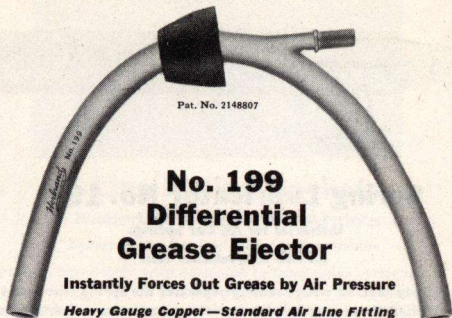


A New Patented Tool that works faster and assures a thorough clean-out job. It replaces costly suction type grease removers, is very handy and easy to use and is so inexpensive that the time saved on one or two jobs pays for it. Compared with the speed of this simple tool, all other methods are slow and unsatisfactory.

Only 5 seconds, or less time, is required to build up sufficient air pressure to force out lubricant.

In the Chrysler line, including Chrysler, Dodge, DeSoto and Plymouth it is necessary to remove the clutch pan to lubricate the throw-out bearings. Field experiments have proved that Herbrand No. 6825 is best adapted to this purpose.

Especially necessary to remove the clutch filler plug on Hudson and Essex cars up to 1933 models. One end has a $\frac{3}{16}$ " forged square plug, the other a $\frac{1}{16}$ " hexagon. Also used efficiently on Plymouths including late models.



Pat. No. 2148807

No. 199 Differential Grease Ejector

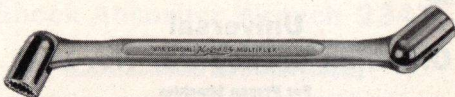
Instantly Forces Out Grease by Air Pressure

Heavy Gauge Copper—Standard Air Line Fitting

To operate: remove filler plug, insert Ejector until tapered rubber plug seals the hole and apply air line to valve. The tapered Neoprene (grease and oil resisting composition) plug should be held firmly with one hand, and a receptacle to catch the grease should be provided before applying the air because the action is so speedy that the grease shoots out almost instantaneously.

Finished in satin nickel. Length 7". Weight 5 ozs. 1 to the box.

LIST PRICE, each.....\$3.25



Clutch Pan Wrench No. 6825

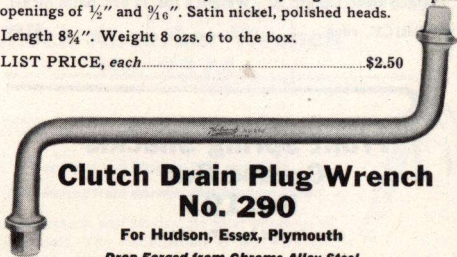
Swivel Heads—For Chrysler Built Cars

Forged from Chrome Molybdenum Steel

Has swivel heads which adjust to any angle and twelve point openings of $\frac{1}{2}$ " and $\frac{3}{16}$ ". Satin nickel, polished heads.

Length 8 $\frac{3}{4}$ ". Weight 8 ozs. 6 to the box.

LIST PRICE, each.....\$2.50



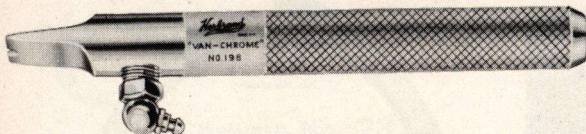
Clutch Drain Plug Wrench No. 290

For Hudson, Essex, Plymouth

Drop Forged from Chrome Alloy Steel

Heat treated and finished in satin plate. Length 6 $\frac{1}{2}$ ". Wt. 6 ozs.

LIST PRICE, each.....\$.65



Spring Lubricator No. 198

Universal for All Car Springs

Chrome Molybdenum Steel

The finely tapered wedge readily separates the spring leaves and the V-shaped opening is milled to the proper size to permit an easy flow of grease which is forced through the standard grease gun fitting. The handle is knurled for a non-slip grip.

Length 5 $\frac{3}{4}$ ". Weight 7 ozs. 6 to the box. Satin nickeled.

LIST PRICE, each.....\$1.75

The surest method of lubricating springs down to the last squeak! Insert the wedge between the spring leaves, attach the grease gun to the conventional fitting, operate in the customary manner and the grease is forced through the tool and out of the tapered end directly to the point of the squeak. Taking the weight off the springs by jacking the car up makes this simple operation even simpler although this is not necessary.



Universal One-Man Grease Bar No. 190

For Frozen Shackles

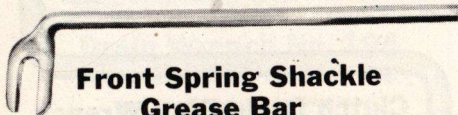
Drop Forged from Tool Steel

The use of this bar eliminates the hazard of bending, distorting or otherwise damaging the shackles in an effort to force grease through the bushings. Heat treated its entire length.

$\frac{3}{4}$ " octagon steel. Length 30". Weight 4 lbs. 12 ozs. Satin nickel.

LIST PRICE, each.....\$2.60

Any frozen shackles are quickly freed and thoroughly greasing them becomes an easy, one-man job with this scientifically designed bar. The fork end fits over the spring applying side pressure instead of end pressure and is set at a 25° angle to give easy access to any type of spring. It clears the crankcase, muffler, fenders, and firmly grips THREE spring leaves. The long, thin pry end is knurled which prevents slipping.



Front Spring Shackle Grease Bar No. 191

Drop Forged from Tool Steel

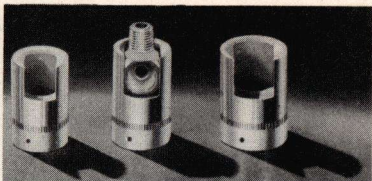
Drop forged solid. Heat treated all over. Satin nickel finish.

$\frac{3}{4}$ " octagon steel. Length 20". Weight 3 lbs. 8 ozs.

LIST PRICE, each.....\$2.10

Especially designed for quicker and more thorough lubrication of the front spring shackles. The head is placed at an angle of 90° to clear all obstructions and provide maximum handling efficiency, either on the lift or in the pit. It has THREE spring leaf capacity.

Wherever elbow-shaped fittings are used, these sockets are invaluable and save many times their cost. They avoid distortion and damage to the fittings, which are very thin and cannot be removed with an ordinary wrench without ruining them. These fittings are standard equipment on most popular cars for carburetor connections, gas tanks, fuel pumps, gas and fuel pump lines, intake manifolds, vacuum brakes, automatic clutches, top and bottom of puralators, automatic spark, etc.



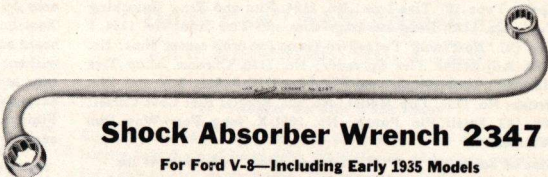
Oil Line Fitting Sockets

For Weatherhead and Elbow Shaped Fittings

$\frac{3}{8}$ " Square Drive—For Any Junior Socket Handles

Improved, new design with open side to handle size variations in oil line fittings. The use of these sockets makes it impossible to ruin fittings because they lock over them securely.

- No. J-714, $\frac{7}{16}$ " special opening. LIST PRICE, each.....\$.75
No. J-716, $\frac{1}{2}$ " special opening. LIST PRICE, each.....\$.80
No. J-718, $\frac{9}{16}$ " special opening. LIST PRICE, each.....\$.90



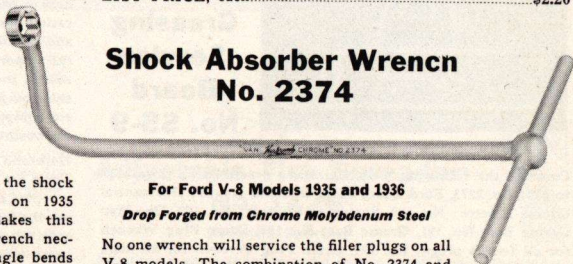
Shock Absorber Wrench 2347

For Ford V-8—Including Early 1935 Models

Combination 8-Point and 12-Point Openings

Ford shocks have square filler plugs on some models and hex on others. This special wrench carries 8-point and 12-point $\frac{7}{16}$ " openings to get them both. Satin nicked with heads polished.

Openings $\frac{7}{16}$ ". Length $11\frac{1}{2}$ ". Weight 7 ozs. Packed 6 to the box.
LIST PRICE, each.....\$2.20



Shock Absorber Wrench No. 2374

For Ford V-8 Models 1935 and 1936

Drop Forged from Chrome Molybdenum Steel

No one wrench will service the filler plugs on all V-8 models. The combination of No. 2374 and 2347 will handle them all.

Length 11". Opening $\frac{7}{16}$ ", 8-point. Weight 9 ozs. 6 to the box.
LIST PRICE, each.....\$2.20

Filler plugs on shock absorbers placed in the frame channels on Ford V-8's up to and including the early 1935 Models are extremely hard to reach. This special S Wrench, scientifically designed with 8 and 12-point openings for both square and hex plugs, has unique angles which clear all obstructions.

Change in location of the shock absorber filler plugs on 1935 Ford V-8 models makes this specially designed wrench necessary. The special angle bends clear all obstructions encountered and the T handle gives a perfect grip and plenty of leverage. Nickel plated.

Specialized Tire Service Board No. SS-14

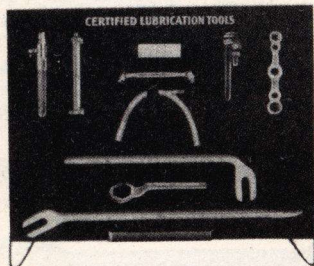


Carries an assortment of fourteen modern speed tools specially designed for easier and better tire changes, which are listed below and fully described on pages 137 to 144.

No. 1126, Straight Spoon Type 18" Tire Iron; No. 1127, Curved Spoon Type 18" Tire Iron; No. 1124, Rim and Ring Unlocking Tool; No. 1125, Long Leverage Rim and Tire Iron; No. 1134, 1 pair (2) "No-Pinch" Twin Tire Irons for drop center rims; No. 1128, Adjustable Tire Spreader; No. 1130, Chrome Alloy Tire Hammer; No. 1131, Special Tire Awl; No. 1132, Tire and Rim Brush; No. 1133, Tire Mallet; No. 403, Special Flat Cold Chisel; No. 443, Small Pin Punch; No. 1051-X, long Four-Way Rim Wrench.

Size of board 27" x 32". Weight complete with tools 44 lbs.

LIST PRICE, complete, board and tools.....\$25.05



Certified Greasing Service Board No. SS-9

Contains the following tools which are described on pages 132 to 135: No. 2373, Ford Drain Plug Wrench; No. 199 Differential Grease Ejector; No. 198, Spring Lubricator; No. 190, One-Man Grease Bar; No. 191, Grease Bar; No. 193, Drain Plug Wrench for all female plugs; No. 194, Drain Plug Wrench for all male plugs; No. 6825, Clutch Pan Nut Wrench; 8" Pipe Wrench.

Size of Board 27" x 32". Finished in baked blue enamel. Weight, tools and board 38 lbs.

LIST PRICE, complete, board and tools.....\$26.95

Tire service demands the utmost in speed. There never was a time when modern equipment was more vital to profits and success and modern merchandising demands that you give visual demonstration that your station is equipped to give quick, dependable, ONE-STOP service.

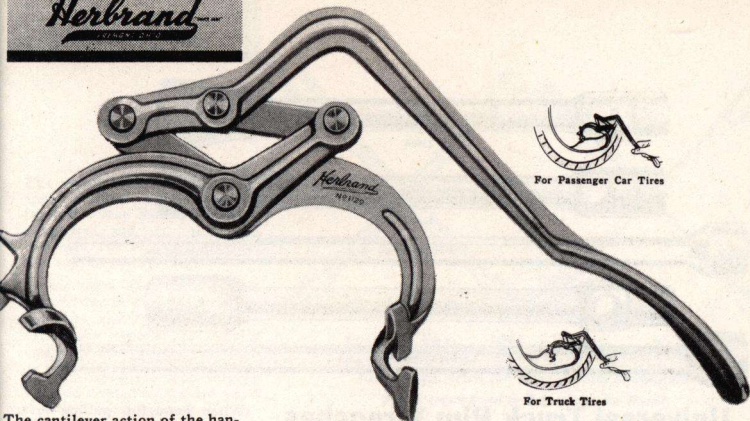
These all metal portable boards are constructed from heavy gauge steel, strongly reinforced with a sturdy easel back and supported on rigid legs. The conveniently located carrying handle makes it easy to move from job to job. Tool holders are welded to the board and shaped so that the tools will not fall off. There is a handy tray at the bottom for holding extra valve stems and other parts. Finished in durable baked blue enamel.



New features on the modern car have created many more lubricating points which demand more frequent lubrication. The business of correct, specialized lubrication has been growing steadily and service station men realize the importance of replacing obsolete, inefficient, and unprofitable equipment because the modern equipped stations are getting the business.

Herbrand Specialized Greasing Tools are universally known and accepted as the standard throughout the industry. They have been carefully engineered to get maximum results without the hazard of bending, distorting or otherwise damaging costly parts on cars. These tools will improve service, save time and cut costs.

Herbrand
TRADE MARK
 PATENTED



The cantilever action of the handle and compounded 8 to 1 leverage provide tremendous power that spreads any tire up to 8½" opening. The connecting joint is eccentric and automatically locks the Spreader in open position.

Positive gripping jaws at the working end of the tool hold with equal security on all passenger car and small truck tires. On the left arm of the Spreader two jaws are provided; the lower for passenger car work; the upper specially designed for truck tires.

"Dual-Use" Self-Adjusting Tire Spreader No. 1129

Compound Action—8 to 1 Leverage Power

For Passenger Car and Truck Tires

Slip the jaws of the spreader into the casing, press down on the handle, and the tool locks with the casing in wide open position for unobstructed examination. The ingenious double jaw on one side of the tool gives it a dual-use and capacity for both passenger car and truck tires. Fabricated from tough, light castings.

Length 15½". Capacity to 8½". Weight 3 lbs. 5 ozs. Satin finish.

LIST PRICE, each.....\$4.60

A practical and moderately priced tool for tire shops, service stations and garages. It rides easily around the entire circumference of the casing on the revolving rollers which are grooved to prevent slipping, making it unnecessary to remove the tool for complete inspection of the casing.

The two spindle rollers slip easily into the opening of the casing, spreading it with a simple pull of the long leverage handle, which is set at a 96° angle for clearance. The tip of the tool is curved to clear the opposite side.



Adjustable Tire Spreader No. 1128

Revolving Spindles

All corners are rounded to avoid injury to the hands even under the hardest pull. Adjustable to spread tires from 5½" to 7¾".

Satin nickel. Length 18½". Weight 2 lbs. 12 ozs. 6 to the box.

LIST PRICE, each.....\$2.10



Universal Truck Rim Wrenches

Eight Extra Deep Forged Openings

Forged Solid—No Welds

Forged from solid bars of steel, with extra deep powerful sockets, expertly heat treated and finished in satin nickel.

No. 1150A, openings $1\frac{1}{16}$ " square, $1\frac{1}{8}$ " hex and $1\frac{1}{2}$ " hex. Length $15\frac{1}{8}$ ". Weight 4 lbs. 9 ozs.

LIST PRICE, each.....\$1.95

No. 1150B, openings $\frac{5}{8}$ " square, $\frac{7}{8}$ " hex and $1\frac{1}{4}$ " hex. Length $15\frac{1}{8}$ ". Weight 4 lbs. 6 ozs.

LIST PRICE, each.....1.95

No. 1150C, Leverage Bar has $1\frac{1}{16}$ " hex opening. Length 20". Weight 3 lbs.

LIST PRICE, each.....1.50

No. 1150D, Chrome Alloy Steel, openings $\frac{7}{8}$ " hex and $1\frac{1}{16}$ " hex. Length $15\frac{1}{8}$ ". Weight 4 lbs.

LIST PRICE, each.....2.30

No. 1150E, Leverage Bar. $1\frac{3}{16}$ " hex opening. Length 20". Wt. 3 lbs.

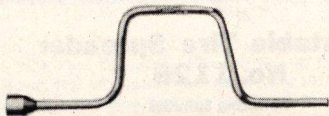
LIST PRICE, each.....1.50

SET No. 1150T, 1 each Nos. 1150 A, 1150B and 1150C. Wt. 13 lbs.

LIST PRICE, complete.....5.40

SET No. 1152T, 1 each 1150A, 1150B, 1150D, 1150E. Wt. 16 lbs.

LIST PRICE, complete.....7.70



Forged Brace Rim Wrenches

No. 1110, $\frac{5}{8}$ "; No. 1112, $\frac{3}{4}$ "; No. 1113, $1\frac{1}{16}$ "; No. 1114, $\frac{7}{8}$ ". Finished in baked black enamel. Length 17". Weight 1 lb. 8 ozs.

LIST PRICE, each.....\$.50

When powerful, pulling leverage is needed, these wrenches never fail. They carry the combination of eight openings (two square openings at the base of the hex sockets in Nos. 1150A and 1150B) which make the set universal for truck rim work.

No. 1150A is equipped with the three necessary opening sizes to make it a complete Ford wheel nut wrench, fitting Budd wheels. No. 1150B carries the three required openings to service all Chevrolet dual wheels. The $1\frac{1}{4}$ " opening in 1150B will also fit Mack and other truck rim nuts.

No. 1150D has forged hex openings of $\frac{7}{8}$ " and $1\frac{1}{16}$ " and is ideal for rim work on International trucks. Chrome Alloy Steel is used for this wrench because extra thin heads are necessary.

The 20" Hex Handle No. 1150C has a $1\frac{1}{16}$ " 6-point socket.

Leverage Bar No. 1150E has a $1\frac{1}{16}$ " hex opening which is necessary to service Motor Wheel rims, Reo, Federal, G.M.C. etc. It also forms a T handle with any of the wrenches illustrated.

Simplicity is the keynote of this sturdy, low-priced wrench. It is forged from a single piece of high carbon steel and heat treated throughout. It has a $5\frac{1}{4}$ " throw.

The modern car with its wide, apron fenders requires this extra size 4-Way Rim Wrench for clearance and to safeguard knuckles. The 15" reach provides extra speed and leverage.

It has extra deep solid forged sockets that fit down snugly over the nuts, and the backs of the heads are tapered to readily clear on all types of wheels.

A solid, one-piece drop forging with no riveted or welded parts to loosen, bend or break. The entire wrench is designed for maximum clearance and perfectly balanced for speed.

Available in Two Types:

No. 1051X is drop forged from special Analysis High Carbon Steel, No. 1052X is a new, solid drop forged, Chrome Vanadium Steel Wrench that is light in weight and amazingly strong.

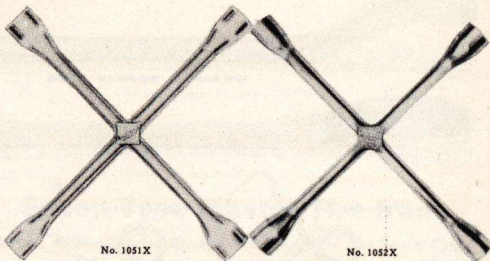


No. 1050X

This standard 4-Way Wrench has extra deep sockets and a long taper back of the head for clearance on all type wheels. Herbrand quality throughout, embodying the famous Herbrand features that are exclusive—solid one piece drop forging with no welded or riveted parts to loosen or break.

No. 1055X

Added to the popularity of the 4-Way Rim Wrench above described is the easy Hub Cap Removing Feature. It is perfectly designed to pull all caps instantly without marring either the cap or the wheel. The hub cap prong is permanently anchored into the one piece drop forged wrench. Heat treated.



No. 1051X

No. 1052X

Four-Way Rim Wrenches

Extra Long Arms for Wide Fender Clearance

Drop Forged Solid in One Piece—No Welds

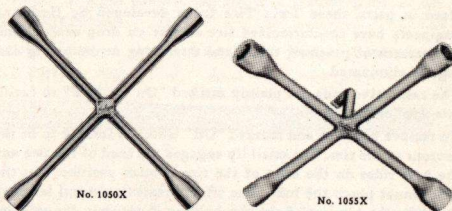
Forged with deep popular openings of $\frac{5}{8}$ ", $\frac{3}{4}$ ", $1\frac{1}{16}$ " and $\frac{7}{8}$ ". Length 15". Weight 2 lbs. 12 ozs. 12 to the carton.

No. 1051X. Drop forged from High Carbon Steel and heat treated throughout. Plated in satin nickel.

LIST PRICE, each.....\$1.60

No. 1052X. Drop forged from Chrome Vanadium Steel. Heat treated from end to end, smoothly ground, finished in triple satin nickel with polished sockets.

LIST PRICE, each.....\$3.30



No. 1050X

No. 1055X

Four-Way Rim Wrench 1050 X

Drop Forged in One Piece—No Welds

Openings $\frac{5}{8}$ ", $\frac{3}{4}$ ", $1\frac{1}{16}$ " and $\frac{7}{8}$ ". Satin nickel finish. Length 13". Weight 2 lbs. 4 ozs. Packed 12 to the box.

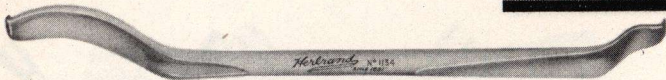
LIST PRICE, each.....\$1.50

4-Way Rim Wrench and Hub Cap Remover 1055X

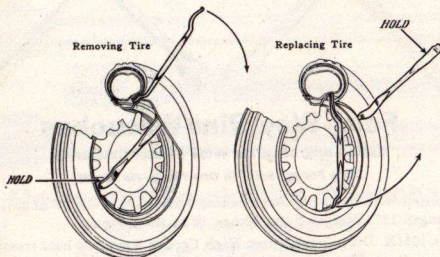
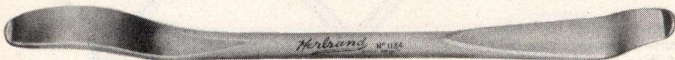
Solid Drop Forged Wrench—Two Tools in One

Openings $\frac{5}{8}$ ", $\frac{3}{4}$ ", $1\frac{1}{16}$ " and $\frac{7}{8}$ ". Satin nickel finish. Length 13". Weight 2 lbs. 4 ozs. Packed 6 to the box.

LIST PRICE, each.....\$1.75



THE FAMOUS "NO-PINCH" TWINS



No. 1134 "No-Pinch" Twin Tire Irons

Revolutionary Design for Drop Center Rims

Drop Forged from High Carbon Tool Steel

Used in pairs, these Twin Tire Irons developed by Herbrand engineers have revolutionized tire service on drop center rims. All hazards of pinching tubes, and stretching or distorting casings is eliminated.

The respective ends are plainly marked "On" or "Off" to facilitate application.

To remove tire: use end marked "Off" which is formed to fit the contour of the rim. The small lip engages the bead of the tire and the heel rides on the edge of the rim in such position that the tool cannot pinch the tube. The offset creates a natural leverage that lifts the tire out of the rim holding it securely for safe entrance of the Twin Iron which easily levers the casing from the rim. The curve on the opposite end gives ample knuckle clearance between the tool and the wheel.

To mount tire: use end marked "On". Place small hook over edge of rim with the bead of the tire on the curved section of the iron. As the tool is raised the tire automatically rides into position on the rim. The small lip avoids the hazard of pinching the tube but gives sufficient purchase to prevent slipping off. After casing is held in position with the first tool the Twin Iron readily assembles the next section on the rim.

Length 18". Weight 1 lb. 13 oz. Satin finish. Packed 6 to the box.
LIST PRICE, each.....\$1.70

Every tire service mechanic knows that all too many tubes are pinched, and casings distorted, through the use of outmoded or makeshift tire irons. Actual statistics compiled in shop research show that two to three tubes are thus ruined in the average shop every week.

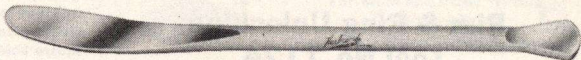
Herbrand presents these "No-Pinch" Twin Tire Tools accurately engineered to fit the modern drop center rims, knowing that they work with a degree of ease and safety never before achieved. Careful shop tests dictated the correct length, the proper curves, offsets and lips to remove or replace tires with the least effort and absolute safety to hands, tubes and tires. Once used by the mechanic on an actual job, he will never be without them.

The extensive use of drop center rims on modern cars, and the increasing spoilage of tubes and damage to tires through the use of antiquated tire tools, actuated the development of the "No-Pinch" Twins which were immediately acclaimed as the fastest and safest ever built. One end of these Dual-Use Irons is for removing casings, the other end for replacing them and each one is properly marked for correct application.

Drop forged from special analysis high carbon steel and carefully heat treated from end to end to stand up under hard service.



Straight Pattern No. 1126



Curved Pattern No. 1127

Spoon Type Master Tire Irons

Broad, Paddle Shaped Blades—For Passenger and Truck Tires

Drop Forged from Select Tool Steel—Heat Treated Throughout

Both patterns are available in two different lengths to efficiently handle the full range of tire work on all passenger cars, trucks and buses. Careful drop forging and special heat treating impart rigidity and unbreakable qualities. Plated in satin nickel.

For Passenger Car and Light Truck Wheel Service

No. 1126, Straight pattern. Length 18". Weight 2 lbs.	
LIST PRICE, each.....	\$1.10
No. 1127, Curved pattern. Length 18". Weight 2 lbs.	
LIST PRICE, each.....	1.15

For Work on Large Truck and Bus Tires

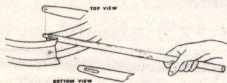
No. 1126T, Straight pattern. Length 23". Weight 2 lbs. 12 ozs.	
LIST PRICE, each.....	1.40
No. 1127T, Curved pattern. Length 23". Weight 2 lbs. 12 ozs.	
LIST PRICE, each.....	1.45

Herbrand's Master Tire Irons were designed by tire experts for tire service men. The broad, thin paddle shaped blade takes hold of a larger area lifting the tire from the rim in a few easy strokes with a minimum of effort and time. Curved pattern No. 1127 is especially adapted to drop center type rims, permitting the operator to throw out, or force in bead without injury to knuckles or hub interference. The blunt handle end is designed to drive dual tires and rings on or off.

They are usually sold in pairs. The curved blade in combination with the straight one makes an unbeatable pair.



The best tool in the tire field for unlocking and locking split type rims. Shaped just right for efficient use and 20" long for extra leverage, this tool is exceptionally well balanced. An outstanding exclusive Herbrand feature that all tire men will appreciate is the recessed grooves on the top and bottom of the working end. The round recess on the top hooks into the corner of the rim and holds it positively in place while the elongated groove on the bottom hooks into the opposite corner of the rim and rides the rim ends together.



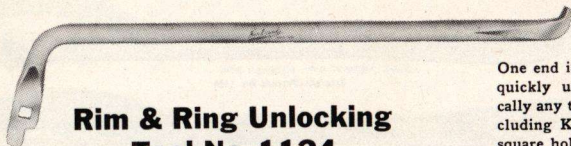
Special Rim & Tire Iron No. 1125

Extra Long Leverage

Drop Forged from Tool Steel

This tool makes tire changes easier and faster and eliminates the hazards of slipping which often result in injury to the operator. It also makes an excellent tire iron. Drop forged, heat treated for extra strength and satin nickel plate all over.

Length 20". Weight 1 lb. 12 ozs.	
LIST PRICE, each.....	\$1.00



Rim & Ring Unlocking Tool No. 1124

Two Tools In One

Drop Forged from Chrome Alloy Steel

One end is carefully designed to unlock and lock collapsible rims. The other end is for the removal of wheel retaining rings.

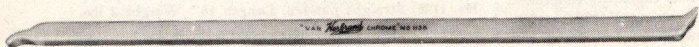
Forged from $\frac{3}{4}$ " round Chrome Alloy Steel and extra powered by heat treatment throughout to stand up under hard usage.

Length 19". Weight 2 lbs. 4 ozs. Satin nickel finish.

LIST PRICE, each.....\$1.25

One end is accurately shaped to quickly unlock or lock practically any type collapsible rim including Kelsey truck rims. The square hole is set in the proper place for engaging the locking device with greatest efficiency. The angle of the offset end is just right for perfect clearance and the 19" length provides ample leverage for easy handling.

The opposite end is forged into a speedy ring unlocking tool for the easy removal of stubborn retaining rings on wire, disc or Budd wheels.



Side Ring Tool No. 1135

For Firestone and Other Rims

Drop Forged from Chrome Molybdenum Steel

Especially engineered for easy removal of the continuous side rings used on Firestone RI, RH and other standard rims.

Extra powered by a modern heat treating process and forged from square stock with rounded corners for perfect grip.

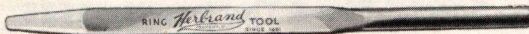
Satin nickel finish. Length 20". Weight 1 lb. 2 ozs.

LIST PRICE, each.....\$1.30

The hook ends are shaped to positively engage the rings and wedge them from their seats with minimum effort. The heel of the tool creates a fulcrum that develops a powerful leverage under the pressure of the long bar. The hazards of distorting rings and injury to hands are eliminated and the rings are quickly removed with the greatest economy of time.



Ring Tool No. 1120



Rim Tool No. 1121

Ring Tool 1120—Rim Tool 1121

Drop Forged from Select Tool Steel

Heat treated throughout, and finished in satin nickel plate.

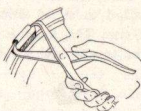
Nos. 1120 and 1121. Length $15\frac{1}{2}$ ". Weight 1 lb. 8 ozs.

LIST PRICE, each.....\$.75

No. 1120 is a necessary tool for removing and replacing the lock rings on the various types of wheels on which these rings are standard equipment. With No. 1121 practically all types of rims are unlocked. It also makes a handy iron for all tire changes.

When wheel nuts are rounded or battered 12-point sockets will not grip them. No. H-126 is forged with a 4-point opening to properly engage the nuts on the popular Budd wheels.

No. H-138 has a 6-point opening for other makes and uses.



High speeds, small diameter wheels, smooth pavements and many other conditions have increased wheel balancing service. The twin-jaws of these Tongs are pointed and wedge shaped to slide under the balancing weight clips so that the plier action of the tool lifts the weights readily without distortion or damage to weight clips, rims or wheels.



Special Wheel-Nut Sockets

For Budd and Other Wheels
 $\frac{3}{4}$ " Square Drive

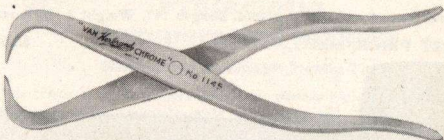
Hot Forged Chrome Molybdenum Steel

Finished in satin nickel with polished side walls. $\frac{3}{4}$ " square drive to fit any Heavy Duty Socket Handles. Weight 8 ozs.

No. H-126. Square opening $1\frac{3}{16}$ " for Budd Wheels.

No. H-138. Six-point opening $1\frac{3}{16}$ ".

LIST PRICE, each.....\$1.55



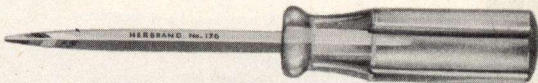
Van-Chrome No. 1145 Wheel Balancing Weight Tongs

For Removing Balance Weights from Rims

Drop Forged from Chrome Alloy Steel

Length $8\frac{1}{2}$ ". Weight 6 ozs. Packed 6 to the box. Satin nicked.

LIST PRICE, each.....\$2.00



Tire Valve-Inside Extractor 176

Saves Costly Delays

Pyratin Handle—Alloy Steel Blade

Length $4\frac{1}{4}$ ". Size of blade $\frac{1}{8}$ " x 3". Weight 1 oz. Nickel blade.

LIST PRICE, each.....\$.50



When valve-insides break they are very difficult to remove. This tool thrusts down inside the stem and readily turns them out. Also useful as a tire awl.



Ideal for removing glass, nails, tacks, stones or other objects that become imbedded in tires. The broad, tapered blade is shaped to spread the rubber while the blunt point removes foreign objects from tires without danger of penetrating tube.

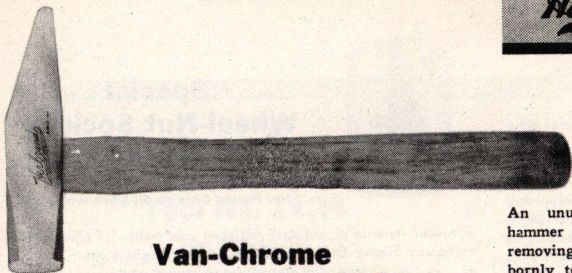


Tire Prodding Awl No. 1131

Handfit Wood Handle

Blade is bright nickel. Length 7". Weight 2 ozs. 6 to the box.

LIST PRICE, each.....\$.30



Van-Chrome Tire Hammer No. 1130

Drop Forged from Chrome Alloy Steel

Heat treated and nickel plated. Length 14". Weight 3 lbs. 8 ozs.

LIST PRICE, each.....\$2.50

An unusually well balanced hammer especially designed for removing tires that cling stubbornly to the rims. Extremely tough but not brittle eliminating the danger of chipping or flying pieces. All corners are rounded or bevelled to avoid damage to tire or rim. The head is firmly anchored to the hickory handle.



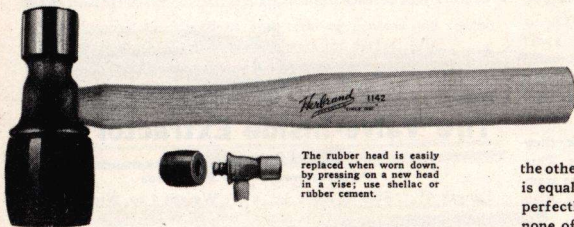
Tire Mallet No. 1133

For Removing and Mounting Tires

The handle is firmly vulcanized into the head. Length 15". Weight 1 lb. 8 ozs. 6 to the box.

LIST PRICE, each.....\$1.40

The head of this mallet is solid, resilient rubber that permits its practical use where a metal hammer would cause damage. It is intended for tire changes but is also popular for automotive body work, fender straightening and for use on materials that are subject to bruising and marring.



2-Way Hammer No. 1142

Perfectly Balanced—Even Weight Distribution

For Body, Fender, Tire Work and General Usage

14" handle of first quality second growth hickory. Wgt. 2¼ lbs.

No. 1142 Hammer.....List Price, each.....\$3.25

No. 1142H Replaceable Rubber Head.....List Price, each.....1.00

Rebound is eliminated in this Dual-Use Hammer which has a small, tough, rubber head on one end and a drop forged steel head on the other. The weight of the heads is equally distributed and it is so perfectly balanced that it has none of the bulk and clumsiness associated with mallets. The 2" face rubber head is equal to the weight of a 2¼ pound mallet. The 14" handle gives tremendous hitting force. Machine, body and fender shops will find the 2-Way Hammer indispensable. It is very efficient for seaming sheet metal, drawing rivets, mounting tires, driving on rims without injury.



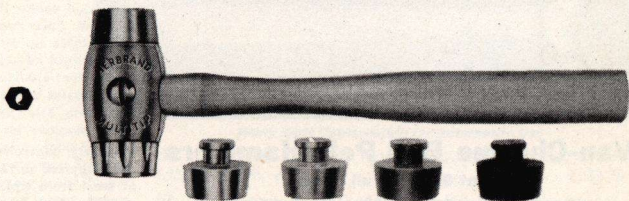
Protectotip Hammers and Mallets

Shatterproof Detachable Pyralin Tips

The tough resilient pyralin tips of these 3 Hammers are without equal for tapping valves in blocks, ignition and distributor work or where highly finished, delicate parts would be injured by hard, metal hammers. The hammers are especially useful for fitting piston pins, wrist pins, gears, bearings, etc. The No. 656 Mallet is ideal for body and fender work and for changing tires without damaging beads.

The center is nicked steel with best quality hickory handle and the pyralin tips are replaceable at nominal cost.

No. 652 Hammer, 8 ozs. Tips 1" diam.....	List Price, each.....	\$1.90
No. 653 Extra Pyralin Tips.....	List Price, each.....	.50
No. 654 Hammer, 12 ozs. Tips 1 3/8" diam.....	List Price, each.....	2.10
No. 655 Extra Pyralin Tips.....	List Price, each.....	.60
No. 656 Mallet, 2 lb. 6 ozs. 2" Faces.....	List Price, each.....	3.75
No. 657 Extra Pyralin Tips.....	List Price, each.....	1.00



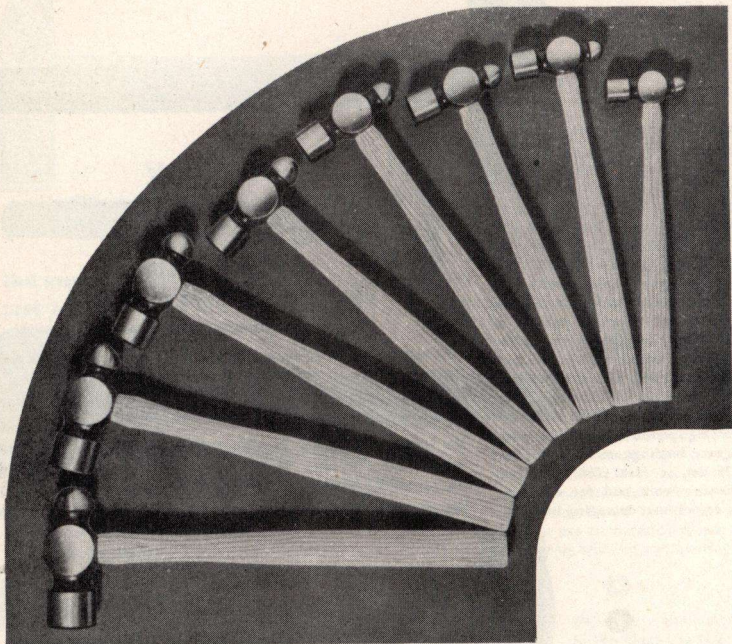
Indispensable for fitting piston pins, wrist pins, and the like, because blows from the Multitip will not draw the metal nor bruise the work. Reduces rebounding to the minimum. The head tips, and handle are securely locked in the drop forged head with a special screw and lock washer. Inserting new tips is a matter of seconds and provides a new hammer for the mere cost of the tips. Nickel plated head, hickory handle.

Multitip 4 in 1 Hammer

Four Interchangeable Tips

No. 130 Multitip Hammer with 1 each of 4 different interchangeable tips. Weight 1 lb. 8 ozs. Individually boxed.

LIST PRICE, complete.....	\$4.10
No. 132 Extra Copper Tip.....	List Price, each..... .80
No. 133 Extra Lead Tip.....	List Price, each..... .40
No. 134 Extra Composition Tip.....	List Price, each..... .25
No. 135 Extra Rubber Tip.....	List Price, each..... .20



Van-Chrome Ball Pein Hammers

Highest Quality—Full Finished

Drop Forged from Select Tool Steel and Heat Treated

Herbrand Ball Pein Hammers are intended for the discriminating machinist and mechanic who demands the utmost in quality, finish and design.

Full finished with faces, peins and sides smoothly polished.

Precisely controlled heat treatment applied to the select grade of steel from which these Hammers are drop forged imparts to them dependable and unusual qualities. They will not chip because they are tempered to conform to the safety standards being stressed in all industrial plants today.

They are well balanced and sturdy for ease of handling and long life under every day usage. The handles are of first grade, second growth hickory, properly seasoned, and are permanently fitted to the eye to prevent any loosening when in operation.

Number	Weight		Length	List Price Each	List Price Extra Handles	
	Lbs.	Ozs.			No.	Per Doz.
BP- 8	..	8	13"	\$1.65	BP- 8H	\$4.80
BP-12	..	12	14"	1.65	BP-12H	4.80
BP-16	1	..	14"	1.75	BP-16H	4.80
BP-20	1	4	16"	1.85	BP-20H	4.80
BP-24	1	8	16"	2.00	BP-24H	4.80
BP-32	2	..	17"	2.25	BP-32H	5.40
BP-40	2	8	18"	2.60	BP-40H	5.40
BP-48	3	..	18 $\frac{3}{4}$ "	3.00	BP-48H	5.40

Constructed of a special, tough, crimped steel wire, there are no better quality brushes available. The steel wire sections are locked into the metal hub parts under pressure, making a complete master unit. This permits the use of the greatest amount of wire and creates an exceptional density on the working face that will wear evenly down to the arbor.

Used on bench grinders and portable tools for general cleaning and roughing; also practical on flexible shafts.

Each wheel has a standard 2" opening and the interchangeable adaptors illustrated are supplied as regular equipment.

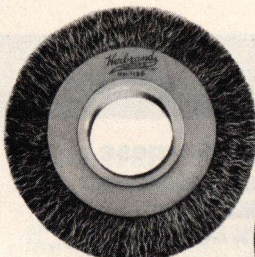


Knot Section Brushes

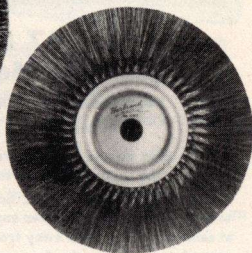
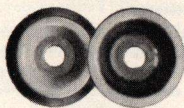
Each knot or tuft of twisted wire in these wheel sections is of uniform size and weight, equally spaced and securely mounted in the one-piece center — no welds or joints to fail under hard usage. This construction assures true balance, absolute safety and efficient operation on high speed equipment or portable tools. The precise coiling of the select quality thirty gauge wire produces an ideal brush for removing old paint, rust and solder from bodies preparatory to painting. Equally efficient for cleaning brake drums or shoes, and any other heavy duty cleaning.



Designed particularly for cleaning carbon from cylinder heads, blocks, valve ports, recesses, combustion chambers and for general cleaning around motors or cars. The heavy first quality crimped wire is firmly secured in the metal cup giving the brush extra long life and unusual wearing qualities. Fits electric drills, pneumatic tools and flexible shafts.



Nos. 1136 to 1137B



Nos. 1147 and 1148

Wire Circular Brushes

For Roughing, Cleaning and Buffing

Heavy Duty Construction—Perfectly Balanced

- No. 1136, 4" diameter. Thickness $\frac{7}{8}$ ". Weight 12 ozs. 1 to the box.
LIST PRICE, complete with $\frac{1}{2}$ " arbor adaptors.....\$2.90
- No. 1137, 6" diameter. Thickness $1\frac{1}{16}$ ". Weight $1\frac{1}{2}$ lbs. 1 to box.
LIST PRICE, complete with $\frac{1}{2}$ " arbor adaptors.....\$3.60
- No. 1137A, 8" diameter. Thickness $1\frac{1}{4}$ ". Weight 2 lbs. 1 to box.
LIST PRICE, complete with $\frac{1}{2}$ " arbor adaptors.....\$5.70
- No. 1137B, 8" diameter. Thickness $1\frac{1}{4}$ ". Weight 2 lbs. 1 to box.
LIST PRICE, complete with $\frac{3}{8}$ " arbor adaptors.....\$5.70

Knot Section Wire Wheel Brushes

For Removing Paint, Rust, Scale, Solder, Etc.

Heavy Duty Construction for Automotive Use

- No. 1147, 6" diam. $\frac{5}{8}$ " thick. Arbor hole $\frac{1}{2}$ ". Weight 1 lb. 2 to box.
LIST PRICE, each.....\$2.75
- No. 1148, 8" diam. $\frac{5}{8}$ " thick. Arbor hole $\frac{1}{2}$ ". Wt. $1\frac{1}{2}$ lbs. 2 to box.
LIST PRICE, each.....\$3.65

Carbon Cleaning Brush No. 1138

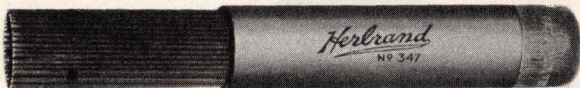
For Use with Portable Tools and Flexible Shafts

Metal Bound Construction

Diameter of shank $\frac{1}{4}$ ". Length of brush 1".
Weight 8 ozs. Individually boxed.

LIST PRICE, each.....\$1.50





No. 347 All Purpose Flexible Metal Scraper

For Removing Rust, Road Tar, Carbon, Etc.

Fits Any Contour or Irregular Shape

Always hold scraper at 30° angle and press only hard enough for wires to take shape of surface to be cleaned.

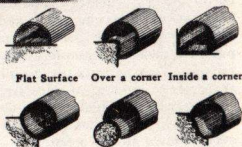
For removing caked carbon, hold tool at 30° angle and strike toward you which will loosen any carbon, then smooth by holding at same angle and push away from you. For aluminum heads pull toward you at 30° angle; for general cleaning push forward.

Constructed from the highest quality, oil tempered, spring steel wire with comfortable, strong tubular hand grip. An oil pad in the handle keeps the wires free from rust, in perfect condition, and assures uniform flexibility.

The Scraper can be resharpened on an emery wheel in a few seconds, by placing a plug inside the wires and a rubber band around the outside.

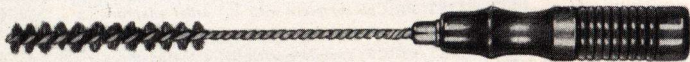
Length 7½". Weight 9 oz. 6 to the box.

LIST PRICE, each.....\$1.65



Flat Surface Over a corner Inside a corner
Concave Surface Convex Surface Any Shape

This scraper of 1000 uses conforms to the shape of any surface to be cleaned. It is not only invaluable in the automotive trade for cleaning carbon, spring leaves, tire rims, motors, bodies and fenders, but is equally valuable in all other industries for cleaning pipe, fittings, threads, solder joints, electrical motors, stripping stranded wires, cleaning paint from corners, removing rust from metal surfaces and general cleaning work too numerous to list.



Valve Guide Hole Wire Cleaning Brushes

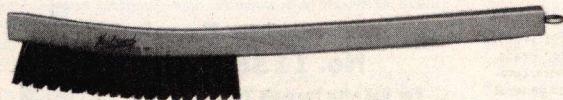
Tempered Wire—Spiral Construction

Cuts Carbon Without Damage to Parts

Available in 3 popular sizes: No. 1139A ⅝"; No. 1139B ¾"; No. 1139C 1⅛". Length 10". Weight 1 oz. 6 to the box.

LIST PRICE, each.....\$.90

Well built brushes of spiral construction for thorough action. Made from high quality special analysis tempered steel wire which is securely woven into the braided wire shank. Thoroughly cleans and polishes valve guides. Large, convenient grip handle.



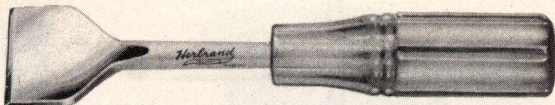
Tire and Rim Brush No. 1132

For Cleaning Rims and Casings

The brush part is 6" long. Length 14". Weight 14 ozs.

LIST PRICE, each.....\$.50

A good quality brush made of stiff, round steel wire. The 14" handle is curved to reach easily into the casings for cleaning. Handy for removing rust and dirt from rims and other parts.



General Purpose Scraper 780

For Removing Gaskets, Paint, Grease or Carbon

Forged from Chrome Alloy Steel

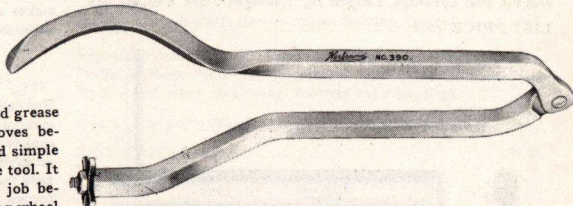
Exceptionally good for removing carbon from cylinder heads, motor blocks, pistons and any flat surfaces. Extremely useful in body and paint shops because it does a thorough job of scraping paint, grease or foreign substances.

An all-around Scraper that cleanly removes shellacked gaskets from oil pans, flanges, etc.

The chisel edge blade has a face $1\frac{1}{8}$ " wide by 2" long and is securely anchored in the pyralin handle.

Length $6\frac{1}{2}$ ". Weight 3 ozs. 6 to the box. Polished blade.

LIST PRICE, each.....\$1.70



Digging caked carbon and grease out of piston ring grooves becomes positive, quick and simple with this special purpose tool. It does a perfect cleaning job because the rotor or scraping wheel is adjustable to fit all the popular sizes of ring grooves. A turn of the lock nut revolves the cutter to any desired size and exactly fits the grooves without binding. The opposite arm of the cleaner is shaped to engage the grooves and is so braced that the cutter must run true. The flexible joint construction at the end of the handles permits the widest possible opening to fit pistons of large diameter.

Ring Groove Cleaner No. 390

Universal—Adjustable to Four Groove Sizes

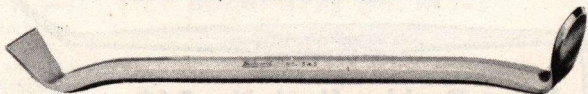
Insures Perfect Ring Functioning and Avoids Injury to Pistons

The hardest carbon deposit yields readily to a few simple revolutions of the tool without injuring piston walls or ring grooves. The cleaner wheel is so accurately fitted that it will not round off the edges of the grooves, insuring perfect fitting rings and avoiding lost compression, poor ring functioning and other disorders. Handles are formed for firm pressure on the work.

Size of cutter blades $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ " and $\frac{3}{16}$ ". Length $10\frac{1}{4}$ ". Weight 12 ozs. Satin nickel plated.

LIST PRICE, complete tool, each.....\$1.80

LIST PRICE, extra cutter wheel, each......35



Carbon Scraper No. 345

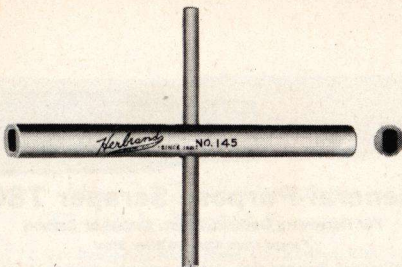
Straight and Oval Blades—Chrome Alloy Steel

Designed to reach and get all of the carbon in every part of any motor head, this popular spoon-type carbon scraper is the most versatile of any produced.

Sharp, knife-like edges, one straight, the other oval with $\frac{5}{16}$ " octagon handle for firm, comfortable grip.

Drop forged and heat treated. Satin nickel finish, polished blades. Length 9". Weight 4 ozs. Packed 6 to the box.

LIST PRICE, each.....\$1.20



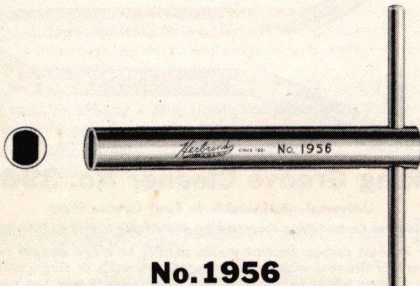
Trico Windshield Wiper Wrench No. 145

For All Makes of Cars—Forged from Chrome Alloy Steel

Double oval openings. Length 3 $\frac{3}{4}$ ". Weight 2 ozs. 6 to the box.

LIST PRICE, each.....\$.80

Those delicate adjustments required for servicing windshield wipers are accurately and easily made with Herbrand's Trico Windshield Wiper Wrench. The elongated socket type openings are hot forged to precision limits for perfect engagements and are sized to service Trico windshield wipers used on all makes of cars. Double plated in satin nickel finish.



No. 1956 Carburetor Jet Wrench

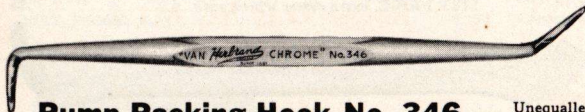
Hot Forged and Heat Treated

Satin nickel. Length 3". Weight 2 ozs. 6 to the box.

LIST PRICE, each.....\$.80

For all cars using Stromberg carburetion (except Fords) this tool is absolutely necessary for accurate adjustment. The socket type, oblong opening is hot forged to perfectly fit the carburetor jet adjusting nut. It is thin walled for adequate clearance and has the correct length for the proper reach.

Forged from a special analysis Tool Steel and heat treated to impart dependability. Every mechanic will find frequent use for this tool because it fits nearly all the popular cars of today. Refer to Herbrand No. 1955 for Ford V-8 Carburetor work.



Pump Packing Hook No. 346

40° and 90° Angle Hooks

Drop Forged from Chrome Alloy Steel

Length 8". Weight 2 ozs. Packed 6 to the box. Nickel plated.

LIST PRICE, each.....\$1.20

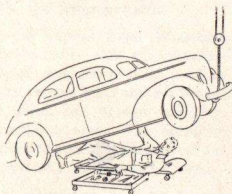
Unequaled for removing old packing from all water pumps and inserting new. Conveniently angled for breaking battery seals and has a wide variety of uses. Heat treated and finished in satin nickel.

Refer to pages 147 to 149 for Cleaning Brushes and Scrapers

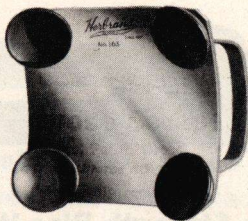


Provides a safe, quick and easy means of removing or replacing glass on doorless headlamps.

The metal plate is formed to fit the contour of the lenses and the handles allow a full grip with both hands. The vacuum cups are made from live resilient rubber for perfect conformation to the curved glass and to insure a strong 4-point contact. This is extremely important, especially where the glass is frozen to corroded shells because it is necessary to exert a firm downward pressure to release the lens at the top and then an upward pull for complete removal.



Working under cars is always time-consuming and awkward for the mechanic, who frequently finds it necessary to crawl back and forth to handle parts and secure needed tools, and often the time of two men is required to do a one-man job. Roller Tray MT-1 is a real mechanic's helper — always ready to hold bolts, nuts or parts that would otherwise be spread around the floor — always keeping the needed tool just where it is wanted.



Safety Headlight Lens Tool 163

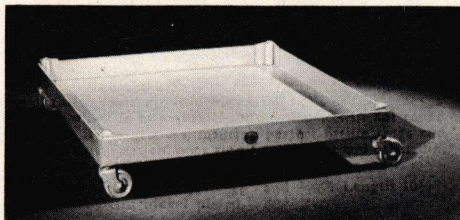
For Removing and Replacing Glass Lenses

Protects Hands—Avoids Breaking Glass

Especially necessary for Chrysler, Plymouth, Dodge, DeSoto, Packard, Nash, Hudson, Terraplane, Studebaker, Graham, Lafayette and other cars using doorless type headlamps.

Size 5¼" x 5¼". Weight 14 ozs. Individually boxed.

LIST PRICE, each.....\$2.25



Roller-Tray No. MT-1

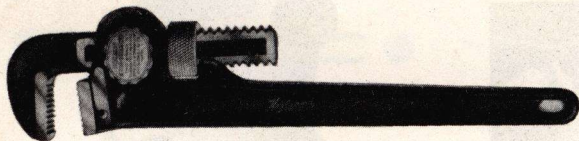
Avoids Losing Parts, Bolts, Nuts—Keeps Necessary Tools Always Handy

Especially Useful for Under-the-Car Service

Here is a mechanic's helper who never argues and is always on the job where most needed, especially for under-the-car service. Substantially constructed from 16 gauge steel with extra strong reinforced corners. Also very useful as a dolly to move heavy parts.

Satin finish. Size 18" x 18" x 1¾". Height including casters 3¾". Weight 10 lbs. Packed in individual cartons.

LIST PRICE, each.....\$5.40



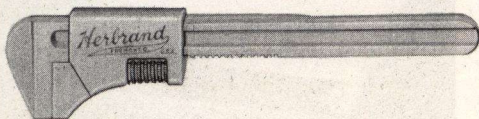
Super-Strength Pipe Wrenches

Drop Forged Alloy Jaws—Alloy Steel Beam

Herbrand Super-Strength Pipe Wrenches are heat treated throughout and are finished in baked black enamel with bright polished edges.

Length Inches	Jaw Opening	Weight Each Lbs. Ozs.	List Price Each
6	1 $\frac{1}{8}$	7	\$ 1.50
8	1 $\frac{3}{8}$	14	1.75
10	2 $\frac{1}{8}$	1	2.25
12	2 $\frac{3}{8}$	2	2.65
14	3	3	3.05
18	3 $\frac{1}{2}$	4	4.35
24	4 $\frac{1}{4}$	7	7.45
36	5 $\frac{1}{2}$	13	15.70
48	6 $\frac{1}{2}$	26	23.50
60	8 $\frac{1}{2}$	41	35.25

The superior design of the Herbrand Pipe Wrench makes it far more efficient to handle than the conventional Stillson pattern. The non-breakable, open housing with free riding adjusting nut is quickly appreciated by mechanics. The jaws are drop forged from Chrome Molybdenum Steel and carefully oil hardened. They will grip and hold perfectly under the stiffest pull and will not lock on the pipe. The alloy handle of I-beam design fits the hand comfortably and will out-test any in the field.



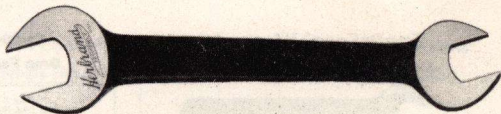
Herbrand Adjustable Wrenches

Drop Forged in Three Sizes from 7" to 11"

Carefully forged and heat treated, they are made in a popular range of sizes.

No.	Length	Jaw Opening	Weight Each Lbs. Ozs.	List Price Each Black Enamel	List Price Each Satin Nickel
110	7	1 $\frac{3}{4}$	12	.50	.55
112	9	2 $\frac{1}{4}$	1	.60	.65
113	11	3 $\frac{1}{4}$	2	.85	.95

Practical — efficient — simple in design, this adjustable wrench was originated by Herbrand many years ago. The knurl screw is peined securely to prevent dropping out. The easy-turning knurl slides within the accurate-fitting jaw to just the right size to fit any nut within its range.



Solid Drop Forged Open End Wrenches

Carbon Steel—Improved Designs

Drop Forged and Heat Treated

In addition to manufacturing the broadest range of automotive tools, Herbrand also produces a full line of Carbon Steel Wrenches in all the popular patterns. Among the standard types in stock are, Engineers Wrenches, single and double end; General Service S Wrenches; Construction and Structural; Car Builders; Textile Machine; Check Nut; Extra thin and other patterns.

These Carbon Steel Wrenches are primarily built for manufacturers who equip their product with service tools and are broadly used for bridge building, structural work, car building, farm and road machinery and for practically all industrial uses.

The openings are milled with precise accuracy to fit all U.S.S. and S.A.E. standard nuts and cap screws. Also stocked with American Standard, Metric and Whitworth openings. They are readily available in a range of sizes that covers every likely need. Supplied in the unfinished or finished condition. Special openings are milled to order.

Among the users of Herbrand tools are many of the nation's largest and most prominent industries.

1. Especially built for manufacturers of machinery for standard equipment purposes and industrial application.
2. Latest improvements in construction and design.
3. Narrow pointed jaws and increased length provide maximum clearance and leverage.
4. Drop forged from a select quality of high carbon tool steel.
5. Heat treated and tempered their entire length providing both interior and surface hardness for the utmost endurance and dependability.
6. Ground smoothly all over and openings milled to unvarying accuracy.
7. Finished in Baked Black Enamel—durable and rust-resisting.
8. Herbrand quality throughout. They will not spread or break.
9. Prompt deliveries on all popular patterns and sizes.
10. For more than 58 years Herbrand quality and refinements in design have paralleled the requirements of the industry.

Finish Specifications

UNFINISHED wrenches are milled, smoothed, heat treated and finished in baked black enamel.

FINISHED wrenches are milled, surface and edges smoothed, heat treated and opening sizes stamped on the heads. Black enamel body with heads ground bright and lacquered.

SPECIAL wrenches made to order, drop forged and machined to your own specifications.

Unless otherwise specified finished wrenches will be supplied

Engineers' Wrenches

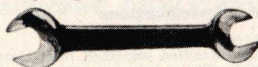
Drop Forged, 15° Angle, Single End



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. CapScrews; Dia. Screws	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	LIST PRICE	
							Un- finished	Fin- ished
60	3/8	3/8	3/8	...	...	3 1/2	\$.22	.28
700	9	1 1/8	1 1/8	...	...	4	.24	.30
701	1	3/8	3/8	3/8	3/8	4 1/2	.29	.36
702	2	1/2	1/2	1/2	1/2	5 1/2	.35	.44
703	3	5/8	5/8	5/8	5/8	6	.42	.52
704	4	3/4	3/4	3/4	3/4	6 1/2	.52	.64
705	5	7/8	7/8	7/8	7/8	7 1/2	.62	.76
706	6	1	1	1	1	8	.76	.92
707	7	1 1/8	1 1/8	1 1/8	1 1/8	10 1/2	.96	1.14
708	8	1 1/4	1 1/4	1 1/4	1 1/4	11 1/2	1.28	1.50
709	9	1 1/2	1 1/2	1 1/2	1 1/2	12 1/2	1.50	1.75
710	10	1 3/4	1 3/4	1 3/4	1 3/4	13 1/2	1.75	2.00
711	11	2	2	2	2	14 1/2	2.00	2.30
712	12	2 1/8	2 1/8	2 1/8	2 1/8	15 1/2	2.30	2.60
713	13	2 1/4	2 1/4	2 1/4	2 1/4	16 1/2	2.60	3.00
714	14	2 1/2	2 1/2	2 1/2	2 1/2	17 1/2	2.90	3.30
715	15	2 3/8	2 3/8	2 3/8	2 3/8	18 1/2	3.20	3.60
716	16	2 1/2	2 1/2	2 1/2	2 1/2	19 1/2	3.50	4.00
717	17	2 3/4	2 3/4	2 3/4	2 3/4	20 1/2	3.80	4.30
718	18	2 7/8	2 7/8	2 7/8	2 7/8	21 1/2	4.10	4.60
719	19	3	3	3	3	22 1/2	4.40	5.00
720	20	3 1/8	3 1/8	3 1/8	3 1/8	23 1/2	4.70	5.30
721	21	3 1/4	3 1/4	3 1/4	3 1/4	24 1/2	5.00	5.60
722	22	3 3/8	3 3/8	3 3/8	3 3/8	25 1/2	5.30	6.00
723	23	3 1/2	3 1/2	3 1/2	3 1/2	26 1/2	5.60	6.30
724	24	3 5/8	3 5/8	3 5/8	3 5/8	27 1/2	5.90	6.60
725	25	4	4	4	4	28 1/2	6.20	7.00
726	26	4 1/8	4 1/8	4 1/8	4 1/8	29 1/2	6.50	7.30
727	27	4 1/4	4 1/4	4 1/4	4 1/4	30 1/2	6.80	7.60
728	28	4 3/8	4 3/8	4 3/8	4 3/8	31 1/2	7.10	7.90
729	29	4 1/2	4 1/2	4 1/2	4 1/2	32 1/2	7.40	8.20
730	30	4 5/8	4 5/8	4 5/8	4 5/8	33 1/2	7.70	8.50
731	31	4 3/4	4 3/4	4 3/4	4 3/4	34 1/2	8.00	8.80
732	32	4 7/8	4 7/8	4 7/8	4 7/8	35 1/2	8.30	9.10
733	33	5	5	5	5	36 1/2	8.60	9.40
734	34	5 1/8	5 1/8	5 1/8	5 1/8	37 1/2	8.90	9.70
735	35	5 1/4	5 1/4	5 1/4	5 1/4	38 1/2	9.20	10.00
736	36	5 3/8	5 3/8	5 3/8	5 3/8	39 1/2	9.50	10.30
737	37	5 1/2	5 1/2	5 1/2	5 1/2	40 1/2	9.80	10.60
738	38	5 5/8	5 5/8	5 5/8	5 5/8	41 1/2	10.10	10.90
739	39	5 3/4	5 3/4	5 3/4	5 3/4	42 1/2	10.40	11.20
740	40	5 7/8	5 7/8	5 7/8	5 7/8	43 1/2	10.70	11.50
741	41	6	6	6	6	44 1/2	11.00	11.80
742	42	6 1/8	6 1/8	6 1/8	6 1/8	45 1/2	11.30	12.10
743	43	6 1/4	6 1/4	6 1/4	6 1/4	46 1/2	11.60	12.40
744	44	6 3/8	6 3/8	6 3/8	6 3/8	47 1/2	11.90	12.70
745	45	6 1/2	6 1/2	6 1/2	6 1/2	48 1/2	12.20	13.00
746	46	6 5/8	6 5/8	6 5/8	6 5/8	49 1/2	12.50	13.30
747	47	6 3/4	6 3/4	6 3/4	6 3/4	50 1/2	12.80	13.60
748	48	6 7/8	6 7/8	6 7/8	6 7/8	51 1/2	13.10	13.90
749	49	7	7	7	7	52 1/2	13.40	14.20
750	50	7 1/8	7 1/8	7 1/8	7 1/8	53 1/2	13.70	14.50
751	51	7 1/4	7 1/4	7 1/4	7 1/4	54 1/2	14.00	14.80
752	52	7 3/8	7 3/8	7 3/8	7 3/8	55 1/2	14.30	15.10
753	53	7 1/2	7 1/2	7 1/2	7 1/2	56 1/2	14.60	15.40
754	54	7 5/8	7 5/8	7 5/8	7 5/8	57 1/2	14.90	15.70
755	55	7 3/4	7 3/4	7 3/4	7 3/4	58 1/2	15.20	16.00
756	56	7 7/8	7 7/8	7 7/8	7 7/8	59 1/2	15.50	16.30
757	57	8	8	8	8	60 1/2	15.80	16.60
758	58	8 1/8	8 1/8	8 1/8	8 1/8	61 1/2	16.10	16.90
759	59	8 1/4	8 1/4	8 1/4	8 1/4	62 1/2	16.40	17.20
760	60	8 3/8	8 3/8	8 3/8	8 3/8	63 1/2	16.70	17.50
761	61	8 1/2	8 1/2	8 1/2	8 1/2	64 1/2	17.00	17.80
762	62	8 5/8	8 5/8	8 5/8	8 5/8	65 1/2	17.30	18.10
763	63	8 3/4	8 3/4	8 3/4	8 3/4	66 1/2	17.60	18.40
764	64	8 7/8	8 7/8	8 7/8	8 7/8	67 1/2	17.90	18.70
765	65	9	9	9	9	68 1/2	18.20	19.00
766	66	9 1/8	9 1/8	9 1/8	9 1/8	69 1/2	18.50	19.30
767	67	9 1/4	9 1/4	9 1/4	9 1/4	70 1/2	18.80	19.60
768	68	9 3/8	9 3/8	9 3/8	9 3/8	71 1/2	19.10	19.90
769	69	9 1/2	9 1/2	9 1/2	9 1/2	72 1/2	19.40	20.20
770	70	9 5/8	9 5/8	9 5/8	9 5/8	73 1/2	19.70	20.50
771	71	9 3/4	9 3/4	9 3/4	9 3/4	74 1/2	20.00	20.80
772	72	9 7/8	9 7/8	9 7/8	9 7/8	75 1/2	20.30	21.10
773	73	10	10	10	10	76 1/2	20.60	21.40
774	74	10 1/8	10 1/8	10 1/8	10 1/8	77 1/2	20.90	21.70
775	75	10 1/4	10 1/4	10 1/4	10 1/4	78 1/2	21.20	22.00
776	76	10 3/8	10 3/8	10 3/8	10 3/8	79 1/2	21.50	22.30
777	77	10 1/2	10 1/2	10 1/2	10 1/2	80 1/2	21.80	22.60
778	78	10 5/8	10 5/8	10 5/8	10 5/8	81 1/2	22.10	22.90
779	79	10 3/4	10 3/4	10 3/4	10 3/4	82 1/2	22.40	23.20
780	80	10 7/8	10 7/8	10 7/8	10 7/8	83 1/2	22.70	23.50
781	81	11	11	11	11	84 1/2	23.00	23.80
782	82	11 1/8	11 1/8	11 1/8	11 1/8	85 1/2	23.30	24.10
783	83	11 1/4	11 1/4	11 1/4	11 1/4	86 1/2	23.60	24.40
784	84	11 3/8	11 3/8	11 3/8	11 3/8	87 1/2	23.90	24.70
785	85	11 1/2	11 1/2	11 1/2	11 1/2	88 1/2	24.20	25.00
786	86	11 5/8	11 5/8	11 5/8	11 5/8	89 1/2	24.50	25.30
787	87	11 3/4	11 3/4	11 3/4	11 3/4	90 1/2	24.80	25.60
788	88	11 7/8	11 7/8	11 7/8	11 7/8	91 1/2	25.10	25.90
789	89	12	12	12	12	92 1/2	25.40	26.20
790	90	12 1/8	12 1/8	12 1/8	12 1/8	93 1/2	25.70	26.50
791	91	12 1/4	12 1/4	12 1/4	12 1/4	94 1/2	26.00	26.80
792	92	12 3/8	12 3/8	12 3/8	12 3/8	95 1/2	26.30	27.10
793	93	12 1/2	12 1/2	12 1/2	12 1/2	96 1/2	26.60	27.40
794	94	12 5/8	12 5/8	12 5/8	12 5/8	97 1/2	26.90	27.70
795	95	12 3/4	12 3/4	12 3/4	12 3/4	98 1/2	27.20	28.00
796	96	12 7/8	12 7/8	12 7/8	12 7/8	99 1/2	27.50	28.30
797	97	13	13	13	13	100 1/2	27.80	28.60
798	98	13 1/8	13 1/8	13 1/8	13 1/8	101 1/2	28.10	28.90
799	99	13 1/4	13 1/4	13 1/4	13 1/4	102 1/2	28.40	29.20
800	100	13 3/8	13 3/8	13 3/8	13 3/8	103 1/2	28.70	29.50

Engineers' Wrenches

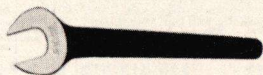
Drop Forged, 15° Angle, Double End



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. CapScrews; Dia. Screws	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	LIST PRICE	
							Un- finished	Fin- ished
71S	3/8	3/8	3/8	.....	.....	4	\$.28	.34
721	9	1 1/8	1 1/8	.....	.....	4	.28	.34
722	1	3/8	3/8	3/8	3/8	4 1/2	.34	.42
723	2	1/2	1/2	1/2	1/2	5 1/2	.42	.50
723A	3	5/8	5/8	5/8	5/8	6	.50	.58
	4	3/4	3/4	3/4	3/4	6 1/2	.58	.66
	5	7/8	7/8	7/8	7/8	7 1/2	.66	.74
	6	1	1	1	1	8	.74	.82
	7	1 1/8	1 1/8	1 1/8	1 1/8	10 1/2	.82	.90
	8	1 1/4	1 1/4	1 1/4	1 1/4	11 1/2	.90	.98
	9	1 1/2	1 1/2	1 1/2	1 1/2	12 1/2	.98	1.06
	10	1 3/4	1 3/4	1 3/4	1 3/4	13 1/2	1.06	1.14
	11	2	2	2	2	14 1/2	1.14	1.22
	12	2 1/8	2 1/8	2 1/8	2 1/8	15 1/2	1.22	1.30
	13	2 1/4	2 1/4	2 1/4	2 1/4	16 1/2	1.30	1.38
	14	2 1/2	2 1/2	2 1/2	2 1/2	17 1/2	1.38	1.46
	15	2 3/8	2 3/8	2 3/8	2 3/8	18 1/2	1.46	1.54
	16	2 1/2	2 1/2	2 1/2	2 1/2	19 1/2	1.54	1.62
	17	2 3/4	2 3/4	2 3/4	2 3/4	20 1/2	1.62	1.70
	18	2 7/8	2 7/8	2 7/8	2 7/8	21 1/2	1.70	1.78
	19	3	3	3	3	22 1/2	1.78	1.86
	20	3 1/8	3 1/8	3 1/8	3 1/8	23 1/2	1.86	1.94
	21	3 1/4	3 1/4	3 1/4	3 1/4	24 1/2	1.94	2.02
	22	3 3/8	3 3/8	3 3/8	3 3/8	25 1/2	2.02	2.10
	23	3 1/2	3 1/2	3 1/2	3 1/2	26 1/2	2.10	2.18
	24	3 5/8	3 5/8	3 5/8	3 5/8	27 1/2	2.18	2.26
	25	4	4	4	4	28 1/2	2.26	2.34
	26	4 1/8	4 1/8	4 1/8	4 1/8	29 1/2	2.34	2.42
	27	4 1/4	4 1/4	4 1/4	4 1/4	30 1/2	2.42	2.50
	28	4 3/8	4 3/8	4 3/8	4 3/8	31 1/2	2.50	2.58
	29	4 1/2	4 1/2	4 1/2	4 1/2	32 1/2	2.58	2.66
	30	4 5/8	4 5/8	4 5/8	4 5/8	33 1/2	2.66	2.74
	31	4 3/4	4 3/4	4 3/4	4 3/4	34 1/2	2.74	2.82
	32	4 7/8	4 7/8	4 7/8	4 7/8	35 1/2	2.82	2.90
	33	5	5	5	5	36 1/2	2.90	2.98
	34	5 1/8	5 1/8	5 1/8	5 1/8	37 1/2	2.98	3.06
	35	5 1/4	5 1/4	5 1/4	5 1/4	38 1/2	3.06	3.14
	36	5 3/8	5 3/8	5 3/8	5 3/8	39 1/2	3.14	3.22
	37	5 1/2	5 1/2	5 1/2	5 1/2	40 1/2	3.22	3.30
	38	5 5/8	5 5/8	5 5/8	5 5/8	41 1/2	3.30	3.38
	39	5 3/4	5 3/4	5 3/4	5 3/4	42 1/2	3.38	3.46
	40	5 7/8	5 7/8	5 7/8	5 7/8	43 1/2	3.46	3.54
	41	6	6	6	6	44 1/2	3.54	3.62
	42	6 1/8	6 1/8	6 1/8	6 1/8	45 1/2	3.62	3.70
	43	6 1/4	6 1/4	6 1/4	6 1/4	46 1/2	3.70	3.78
	44	6 3/8	6 3/8	6 3/8	6 3/8	47 1/2	3.78	3.86
	45	6 1/2	6 1/2	6 1/2	6 1/2	48 1/2	3.86	3.94
	46	6 5/8	6 5/8	6 5/8	6 5/8	49 1/2	3.94	4.02
	47	6 3/4	6 3/4	6 3/4	6 3/4	50 1/2	4.02	4.10
	48	6 7/8	6 7/8	6 7/8	6 7/8	51 1/2	4.10	4.18
	49	7	7	7	7	52 1/2	4.18	4.26
	50	7 1/8	7 1/8	7 1/8	7 1/8	53 1/2	4.26	4.34
	51	7 1/4	7 1/4	7 1/4	7 1/4	54 1/2	4.34	4.42
	52	7 3/8	7 3/8	7 3/8	7 3/8	55 1/2	4.42	4.50
	53	7 1/2	7 1/2	7 1/2	7 1/2	56 1/2	4.50	4.58
	54	7 5/8	7 5/8	7 5/8	7 5/8	57 1/2	4.58	4.66
	55	7 3/4	7 3/4	7 3/4	7 3/4	58 1/2	4.66	4.74
	56	7 7/8	7 7/8	7 7/8	7 7/8	59 1/2	4.74	4.82
	57	8	8	8	8	60 1/2	4.82	4.90
	58	8 1/8	8 1/8	8 1/8	8 1/8	61 1/2	4.90	4.98
	59	8 1/4	8 1/4	8 1/4	8 1/4	62 1/2	4.98	5.06
	60	8 3/8	8 3/8	8 3/8	8 3/8	63 1/2	5.06	5.14
	61	8 1/2	8 1/2	8 1/2	8 1/2	64 1/2	5.14	5.22
	62	8 5/8	8 5/8	8 5/8	8 5/8	65 1/2	5.22	5.30
	63	8 3/4	8 3/4	8 3/4	8 3/4	66 1/2	5.30	5.38
	64	8 7/8	8 7/8	8 7/8	8 7/8	67 1/2	5.38	5.46
	65	9	9	9	9	68 1/2	5.46	5.54
	66	9 1/8	9 1/8	9 1/8	9 1/8	69 1/2	5.54	5.62
	67	9 1/4	9 1/4	9 1/4	9 1/4	70 1/2	5.62	5.70
	68	9 3/8	9 3/8	9 3/8	9 3/8	71 1/2	5.70	5.78
	69	9 1/2	9 1/2	9 1/2	9 1/2	72 1/2	5.78	5.86
	70	9 5/8	9 5/8	9 5/8	9 5/8	73 1/2	5.86	5.94
	71	9 3/4	9 3/4	9 3/4	9 3/4	74 1/2	5.94	6.02
	72	9 7/8	9 7/8	9 7/8	9 7/8	75 1/2	6.02	6.10
	73	10	10	10	10	76 1/2	6.10	6.18
	74	10 1/8	10 1/8	10 1/8	10 1/8	77 1/2	6.18	6.26
	75	10 1/4	10 1/4	10 1/4	10 1/4	78 1/2	6.26	6.34
	76	10 3/8	10 3/8	10 3/8	10 3/8	79 1/2	6.34	6.42
	77	10 1/2	10 1/2	10 1/2	10 1/2	80 1/2	6.42	6.50
	78	10 5/8	10 5/8	10 5/8	10 5/8	81 1/2	6.50	6.58
	79	10 3/4	10 3/4	10 3/4	10 3/4	82 1/2	6.58	6.66
	80	10 7/8	10 7/8	10 7/8	10 7/8	83 1/2	6.66	6.74
	81	11	11	11	11	84 1/2	6.74	6.82
	82	11 1/8	11 1/8	11 1/8	11 1/8	85 1/2	6.82	6.90
	83	11 1/4	11 1/4	11 1/4	11 1/4	86 1/2	6.90	6.98
	84	11 3/8	11 3/8	11 3/8	11 3/8	87 1/2	6.98	7.06
	85	11 1/2	11 1/2	11 1/2	11 1/2	88 1/2	7.06	7.14
	86	11 5/8	11 5/8	11 5/8	11 5/8	89 1/2	7.14	7.22
	87	11 3/4	11 3/4	11 3/4	11 3/4	90 1/2	7.22	7.30
	88	11 7/8	11 7/8	11 7/8	11 7/8	91 1/2	7.30	7.38
	89	12	12	12	12	92 1/2	7.38	7.46
	90	12 1/8	12 1/8	12 1/8	12 1/8	93 1/2	7.46	7.54
	91	12 1/4	12 1/4	12 1/4	12 1/4	94 1/2	7.54	7.62
	92	12 3/8	12 3/8	12 3/8	12 3/8	95 1/2	7.62	7.70
	93	12 1/2	12 1/2	12 1/2	12 1/2	96 1/2	7.70	7.78
	94	12 5/8	12 5/8	12 5/8	12 5/8	97 1/2	7.78	7.86
	95	12 3/4	12 3/4	12 3/4	12 3/4	98 1/2	7.86	7.94
	96	12 7/8	12 7/8	12 7/8	12 7/8	99 1/2	7.94	8.02
	97	13	13	13	13	100 1/2	8.02	8.10
	98	13 1/8	13 1/8	13 1/8	13 1/8	101 1/2	8.10	8.18
	99	13 1/4	13 1/4	13 1/4	13 1/4	102 1/2	8.18	8.26
	100	13 3/8	13 3/8	13 3/8	13 3/8	103 1/2	8.26	8.34
	101	13 1/2	13 1/2	13 1/2	13 1/2	104 1/2	8.34	8.42
	102	13 5/8	13 5/8	13 5/8	13 5/8	105 1/2	8.42	8.50
	103	13 3/4	13 3/4	13 3/4	13 3/4	106 1/2	8.50	8.58
	104	13 7/8	13 7/8	13 7/8	13 7/8	107 1/2	8.58	8.66
	105	14	14	14	14	108 1/2	8.66	8.74
	106	14 1/8	14 1/8	14 1/8	14 1/8	109 1/2	8.74	8.82
	107	14 1/4	14 1/4	14 1/4	14 1/4	110 1/2	8.82	8.90
	108	14 3/8	14 3/8	14 3/8	14 3/8	111 1/2	8.90	8.98
	109	14 1/2	14 1/2	14 1/2	14 1/2	112 1/2	8.98	9.06
	110	14 5/8	14 5/8	14 5/8	14 5/8	113 1/2	9.06	9.14
	111	14 3/4	14 3/4	14 3/4	14 3/4	114 1/2	9.14	9.22
	112	14 7/8	14 7/8	14 7/8	14 7/8	115 1/2	9.22	9.30
	113	15	15	15	15	116 1/2	9.30	9.38
	114	15 1/8	15 1/8	15 1/8	15 1/8	117 1/2	9.38	9.46
	115	15 1/4	15 1/4	15 1/4	15 1/4	118 1/2	9.46	9.54
	116	15 3/8	15 3/8	15 3/8	15 3/8	119 1/2	9.54	9.62
	117	15 1/2	15 1/2	15 1/2	15 1/2	120 1/2	9.62	9.70
	118	15 5/8	15 5/8	15 5/8	15 5/8	121 1/2	9.70	9.78
	119	15 3/4	15 3/4	15 3/4	15 3/4	122 1/2	9.78	9.86
	120	15 7/8	15 7/8	15 7/8	15 7/8	123 1/2	9.86	9.94
	121	16	16	16	16	124 1/2	9.94	10.02
	122	16 1/8	16 1/8	16 1/8	16 1/8	125 1/2	10.02	10.10
	123	16 1/4	16 1/4	16 1/4	16 1/4	126 1/2	10.10	10.18
	124	16 3/8	16 3/8	16 3/8	16 3/8	127 1/2	10.18	10.26
	125	16 1/2	16 1/2	16 1/2	16 1/2	128 1/2	10.26	10.34
	126	16 5/8	16 5/8	16 5/8	16 5/8	129 1/2	10.34	10.42
	127	16 3/4	16 3/4	16 3/4	16 3/4	130 1/2	10.42	10.50
	128	16 7/8	16 7/8	16 7/8	16 7/8	131 1/2	10.50	10.58
	129	17	17	17	17	132 1/2	10.58	10.66
	130	17 1/8	17 1/8	17 1/8	17 1/8	133 1/2	10.66	10.74
	131	17 1/4	17 1/4	17 1/4	17 1/4	134 1/2	10.74	10.82
	132	17 3/8	17 3/8	17 3/8	17 3/8	135 1/2	10.82	10.90
	133	17 1/2	17 1/2	17 1/2	17 1/2	136 1/2	10.90	10.98
	134	17 5/8	17 5/8	17 5/8	17 5/8	137 1/2	10.98	11.06
	135	17 3/4	17 3/4	17 3/4	17 3/4	138 1/2	11.06	11.14
	136	17 7/8	17 7/8	17 7/8	17 7/8	139 1/2	11.14	11.22
	137	18	18	18	18	140 1/2	11.22	11.30
	138	18 1/8	18 1/8	18 1/8	18 1/8	141 1/2	11.30	11.38
	139	18 1/4	18 1/4	18 1/4	18 1/4	142 1/2	11.38	11.46
	140	18 3/8	18 3/8	18 3/8	18 3/8	143 1/2	11.46	11.54
	141	18 1/2	18 1/2	18 1/2	18 1/2	144 1/2	11.54	11.62
	142	18 5/8	18 5/8	18 5/8	18 5/8	145 1/2	11.62	11.70
	143	18 3/4	18 3/4	18 3/4	18 3/4	146 1/2	11.70	11.78

Check Nut or Thin Wrenches

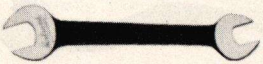
Drop Forged, 15° Angle, Single Head



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. Cap Screws; Dia.	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	Thick- ness Head	LIST PRICE	
								Unfin- ished	Fin- ished
600	3/8	...	3/8	3/8	3/8	4 1/2	3/8	\$.30	\$.36
601	7/16	...	7/16	7/16	7/16	4 3/4	7/16	.30	.36
602	1/2	...	1/2	1/2	1/2	5 1/4	1/2	.37	.44
603	5/8	...	5/8	5/8	5/8	6	5/8	.44	.52
604	3/4	...	3/4	3/4	3/4	6 1/2	3/4	.55	.64
605	7/8	...	7/8	7/8	7/8	7 1/4	7/8	.66	.76
606	1	...	1	1	1	8 1/4	1	.78	.90
607	1 1/8	...	1 1/8	1 1/8	1 1/8	10 1/4	1 1/8	.94	1.08
608	1 1/4	...	1 1/4	1 1/4	1 1/4	11 1/4	1 1/4	1.20	1.36
609	1 1/2	...	1 1/2	1 1/2	1 1/2	12 1/4	1 1/2	1.46	1.64
610	1 3/4	...	1 3/4	1 3/4	1 3/4	13 1/4	1 3/4	1.66	1.84
611	2	...	2	2	2	15 1/4	2	2.40	2.60
612	2 1/8	...	2 1/8	2 1/8	2 1/8	16 1/4	2 1/8	2.40	2.60

Check Nut or Thin Wrenches

Drop Forged, 15° Angle, Double Head



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. Cap Screws; Dia.	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	Thick- ness Head	LIST PRICE	
								Unfin- ished	Fin- ished
623F	3/8	...	3/8	3/8	3/8	5 1/2	3/8	\$.42	\$.50
623E	7/16	...	7/16	7/16	7/16	5 3/4	7/16	.42	.50
623	1/2	...	1/2	1/2	1/2	6 1/4	1/2	.50	.60
624	5/8	...	5/8	5/8	5/8	6 3/4	5/8	.50	.60
625	3/4	...	3/4	3/4	3/4	7 1/4	3/4	.60	.72
626	7/8	...	7/8	7/8	7/8	8 1/4	7/8	.72	.84
627	1	...	1	1	1	9 1/4	1	.84	.96
628	1 1/8	...	1 1/8	1 1/8	1 1/8	10 1/4	1 1/8	1.00	1.12
629	1 1/4	...	1 1/4	1 1/4	1 1/4	11 1/4	1 1/4	1.12	1.24
630	1 1/2	...	1 1/2	1 1/2	1 1/2	12 1/4	1 1/2	1.24	1.36
631	1 3/4	...	1 3/4	1 3/4	1 3/4	13 1/4	1 3/4	1.36	1.48
632	2	...	2	2	2	15 1/4	2	1.48	1.60
633	2 1/8	...	2 1/8	2 1/8	2 1/8	16 1/4	2 1/8	1.60	1.72
634	2 1/4	...	2 1/4	2 1/4	2 1/4	17 1/4	2 1/4	1.72	1.84
635	2 3/8	...	2 3/8	2 3/8	2 3/8	18 1/4	2 3/8	1.84	1.96
636	2 1/2	...	2 1/2	2 1/2	2 1/2	19 1/4	2 1/2	1.96	2.08
637	2 3/4	...	2 3/4	2 3/4	2 3/4	20 1/4	2 3/4	2.08	2.20
638	3	...	3	3	3	22 1/4	3	2.20	2.32
639	3 1/8	...	3 1/8	3 1/8	3 1/8	23 1/4	3 1/8	2.32	2.44
640	3 1/4	...	3 1/4	3 1/4	3 1/4	24 1/4	3 1/4	2.44	2.56
641	3 3/8	...	3 3/8	3 3/8	3 3/8	25 1/4	3 3/8	2.56	2.68
642	3 1/2	...	3 1/2	3 1/2	3 1/2	26 1/4	3 1/2	2.68	2.80

Construction Wrenches

Drop Forged, 15° Angle Heads



The deep and narrow jaws of these wrenches provide for a secure bearing on the nut. The long tapered handles readily insert into bolt holes and bring them into line. Finished in rust-resisting baked black enamel.

No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For Amer. Std. Nuts; Bolt Size	Length	Thick- ness Head	LIST PRICE	
						Black Un- hardened	Black Hardened
221A	3/8	...	3/8	8	3/8	\$.56	\$.70
221	7/16	...	7/16	8	7/16	.56	.70
222	1/2	...	1/2	8 1/2	1/2	.56	.70
223	5/8	...	5/8	9 1/2	5/8	.70	.90
224	3/4	...	3/4	10 1/2	3/4	.70	.90
225	7/8	...	7/8	11 1/2	7/8	.90	1.16
226	1	...	1	12 1/2	1	.90	1.16
227	1 1/8	...	1 1/8	13 1/2	1 1/8	1.16	1.50
228	1 1/4	...	1 1/4	14 1/2	1 1/4	1.50	1.90
229	1 1/2	...	1 1/2	15 1/2	1 1/2	1.90	2.40
230	1 3/4	...	1 3/4	16 1/2	1 3/4	2.40	3.00
231	2	...	2	17 1/2	2	3.00	3.50
232	2 1/8	...	2 1/8	18 1/2	2 1/8	3.50	4.00
233	2 1/4	...	2 1/4	19 1/2	2 1/4	4.00	4.50
234	2 3/8	...	2 3/8	20 1/2	2 3/8	4.50	5.00
235	2 1/2	...	2 1/2	21 1/2	2 1/2	5.00	5.50
236	2 3/4	...	2 3/4	22 1/2	2 3/4	5.50	6.00

Nominal openings listed, actual openings include proper clearance.

Structural Wrenches

Drop Forged, Straight Openings



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For Amer. Std. Nuts; Bolt Size	Length	Thick- ness Head	Offset	LIST PRICE	
							Black Un- hardened	Black Hardened
901A	3/8	...	3/8	10	3/8	1 1/2	\$.66	\$.80
901B	7/16	...	7/16	10	7/16	1 1/2	.66	.80
902	1/2	...	1/2	10 1/2	1/2	1 1/2	.66	.80
903A	5/8	...	5/8	11 1/2	5/8	1 1/2	.80	1.04
903B	3/4	...	3/4	11 1/2	3/4	1 1/2	.80	1.04
904A	7/8	...	7/8	11 1/2	7/8	1 1/2	.80	1.04
904B	1	...	1	11 1/2	1	1 1/2	.80	1.04
905A	1 1/8	...	1 1/8	12 1/2	1 1/8	1 1/2	.94	1.30
905B	1 1/4	...	1 1/4	12 1/2	1 1/4	1 1/2	.94	1.30
906A	1 1/2	...	1 1/2	13 1/2	1 1/2	1 1/2	.94	1.30
907A	1 3/8	...	1 3/8	13 1/2	1 3/8	1 1/2	.94	1.30
908	1 1/2	...	1 1/2	17 1/2	1 1/2	1 1/2	1.56	2.20
909A	1 3/4	...	1 3/4	17 1/2	1 3/4	1 1/2	1.56	2.20
910	1 1/2	...	1 1/2	21 1/2	1 1/2	1 1/2	2.10	2.90
911	1 3/4	...	1 3/4	21 1/2	1 3/4	1 1/2	2.70	3.60
912A	2	...	2	23 1/2	2	1 1/2	4.50	6.00
912B	2 1/8	...	2 1/8	23 1/2	2 1/8	1 1/2	4.50	6.00

Nominal openings listed, actual openings include proper clearance.

Car Wrenches

Drop Forged, 22½° Angle, Double Head
Long Leverage



Improved design with narrow, pointed jaws for greater accessibility and more efficient handling. These wrenches are especially designed for car and truck work, but they are adaptable to general service. They are built extra heavy for severe work. The black, hardened wrenches are heat treated their entire length and finished in rust-resisting baked black enamel. Special openings milled to order.

No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For Amer. Std. Nuts; Bolt Size	Length	Thickness Head	LIST PRICE	
						Black Un-hardened	Black Hardened
367A	½ & 1 ½	¾ & 1 ½	¾ & 1 ½	12	½	\$ 1.10	\$ 1.50
367	1 ½ & 2	1 ½ & 2	1 ½ & 2	12	½	1.10	1.50
370A	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	19	½	1.90	2.50
370C	1 ½ & 2	1 ½ & 2	1 ½ & 2	19	½	1.90	2.50
370	1 & 1 ½	1 & 1 ½	1 & 1 ½	19	½	1.90	2.50
370B	1 ½ & 2	1 ½ & 2	1 ½ & 2	20	½	2.30	3.10
371A	1 ½ & 2	1 ½ & 2	1 ½ & 2	20	½	2.30	3.10
371	1 ½ & 2	1 ½ & 2	1 ½ & 2	20	½	2.30	3.10
372	1 ½ & 2	1 ½ & 2	1 ½ & 2	20	½	2.30	3.10
372A	1 ½ & 2	1 ½ & 2	1 ½ & 2	20	½	2.30	3.10
373	1 ½ & 2	1 ½ & 2	1 ½ & 2	21	½	2.70	3.70
374A	1 ½ & 2	1 ½ & 2	1 ½ & 2	21	½	2.70	3.70
375	1 ½ & 2	1 ½ & 2	1 ½ & 2	21	½	2.70	3.70
375A	1 ½ & 2	1 ½ & 2	1 ½ & 2	21	½	2.70	3.70
376	1 ½ & 2	1 ½ & 2	1 ½ & 2	21	½	2.70	3.70
377A	1 ½ & 2	1 ½ & 2	1 ½ & 2	22	½	3.30	4.50
378	1 ½ & 2	1 ½ & 2	1 ½ & 2	22	½	3.30	4.50
378A	1 ½ & 2	1 ½ & 2	1 ½ & 2	22	½	3.30	4.50
377	1 ½ & 2	1 ½ & 2	1 ½ & 2	22	½	3.30	4.50
379	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
380A	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
381	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
381B	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
380	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
382	1 ½ & 2	1 ½ & 2	1 ½ & 2	23	½	3.90	5.30
383A	1 ½ & 2	1 ½ & 2	1 ½ & 2	24	½	4.50	6.30
384	1 ½ & 2	1 ½ & 2	1 ½ & 2	24	½	4.50	6.30
385	1 ½ & 2	1 ½ & 2	1 ½ & 2	24	½	4.50	6.30
385B	1 ½ & 2	1 ½ & 2	1 ½ & 2	24	½	4.50	6.30
386B	1 ½ & 2	1 ½ & 2	1 ½ & 2	24	½	4.50	6.30
387A	1 ½ & 2	1 ½ & 2	1 ½ & 2	25	½	6.80	9.00
387	1 ½ & 2	1 ½ & 2	1 ½ & 2	25	½	6.80	9.00
388	2 & 2 ½	2 & 2 ½	2 & 2 ½	25	½	6.80	9.00
389	2 & 2 ½	2 & 2 ½	2 & 2 ½	25	½	6.80	9.00

Nominal openings listed, actual openings include proper clearance except for track nuts. When desired for track nuts specify on order.

Offset Angle Wrenches

Drop Forged, 22½° Angle, Double Head



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For Amer. Std. Nuts; Bolt Size	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	Thickness Head	LIST PRICE	
								Unfin-ished	Fin-ished
760A	½ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	4 ½	½	\$ 4.42	\$ 5.50
760B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
760C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
760Y	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50

Offset Angle Wrenches, Continued

Drop Forged, 22½° Angle, Double Head

No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. Cap Screws; Dia. Screws	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	Thickness Head	LIST PRICE	
								Unfin-ished	Fin-ished
760F	½ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	4 ½	½	\$ 4.42	\$ 5.50
760G	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761X	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761Z	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
761C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762Y	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
762C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763Y	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763F	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
763C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764Z	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
764H	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
765A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
765B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50
765C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	4 ½	½	4.42	5.50

General Service Wrenches

Drop Forged, 22½° Angle, Double Head



No.	Openings Milled	For U.S. Std. Nuts; Bolt Size	For U.S. Std. Cap Screws; Dia. Screws	S.A.E. Std. Nuts and Cap Screws; Bolt Size	For Amer. Std. Nuts; Bolt Size	L'gth	LIST PRICE	
							Unfin-ished	Fin-ished
675C	½ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	¾ & 1 ½	6 ½	\$.45	\$.54
675B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	6 ½	.45	.54
675A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	6 ½	.45	.54
675	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	6 ½	.45	.54
677S	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	7 ½	.58	.68
677C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	7 ½	.58	.68
677E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	7 ½	.58	.68
677B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	7 ½	.58	.68
677	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	7 ½	.58	.68
679B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679S	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
679C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	8 ½	.73	.86
681E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	9 ½	.93	1.10
681	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	9 ½	.93	1.10
681B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	9 ½	.93	1.10
681A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	9 ½	.93	1.10
681D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	9 ½	.93	1.10
683E	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
683D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
683C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
683B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
683A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
683X	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	10 ½	1.16	1.40
685	1 & 1 ½	1 & 1 ½	1 & 1 ½	1 & 1 ½	1 & 1 ½	12 ½	1.65	2.00
685A	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	12 ½	1.65	2.00
685C	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	12 ½	1.65	2.00
685B	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	12 ½	1.65	2.00
685D	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	1 ½ & 2	12 ½	1.65	2.00



Strict adherence to the specifications and contour of the finished piece affects a real economy in Herbrand Drop Forgings because it reduces machining and finishing operations to a minimum. Expert hammer-smiths, who have made forging their life business, maintain strictly uniform dimensions and close tolerances producing forgings which are free from defects.

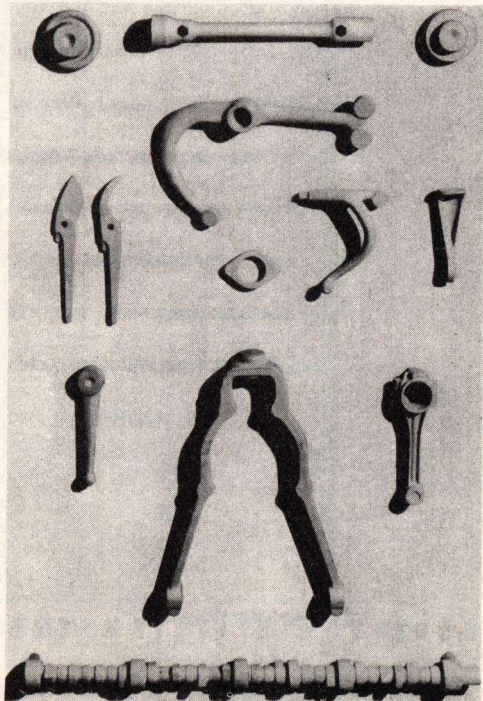
In these days of high speed production the vital load-bearing parts of your product must have the ability to withstand the gruelling grind and punishment of high speed service. Herbrand forgings impart that enduring, inbuilt stamina because they are scientifically heat treated by definite processes in the latest automatic electrically controlled furnaces where constant temperatures and exact regulation give positive results.

Skilled and vigilant inspection is rigidly enforced. To help work out involved or difficult problems our engineering advisory staff is maintained on a scale commensurate with the highest engineering developments of the present day.

Herbrand provides the latest, modern forging facilities including steam hammers, board hammers, upset machines, bending machines, heat treating and die making equipment. We have the organization and facilities to satisfy the most discriminating user and the "Diamond H" trade mark will be found on the vital forged parts of many of today's leading automobiles and industrial equipment. Your inquiries are solicited.

Herbrand Precision Forgings

Upset or Drop Forged—Any Shape or Size up to 200 Lbs.



Wrench and Socket Openings and Sizes of Bolts and Nuts They Fit

Wrench Opening in Inches Nominal Size	The Dimensions given below are the Outside Diameters of the Thread in Inches				
	S.A.E. Std. Screws and Nuts	U.S.S.		American Std.	
		Nuts	Cap Screws	Nuts	Cap Screws
* 1/4	...	...	...	4	...
* 3/16	...	1/8	1/8	5 & 6	...
* 1/8	...	...	1/16	10	...
* 1/16	1/4	...	1/4	12 & 1/4	1/4
* 1/2	3/16	1/4	3/16	...	3/16
* 9/16	3/8	...	3/8	3/16	3/8
13/32	...	3/16	...	...	...
* 3/8	1/16	3/8	1/16	3/8	1/16
* 11/16	...	3/8	...	...	...
* 3/4	1/2	...	1/2	3/4	1/2
25/32	...	1/16	...	...	...
* 13/16	...	1/2	3/16	1/2	3/16
* 7/8	3/16	1/2	3/8	3/16	3/8
15/16	3/8	...	...	...	...
31/32	...	3/16	...	...	...
* 1	11/16	...	3/4	3/8	3/4
* 11/16	3/4	3/8	...	...	...
1 1/8	...	3/4	1	3/4	7/8
* 1 1/4	7/8	3/4	...	...	...
1 1/8	...	...	1 1/8	7/8	1
* 1 1/2	1	7/8	...	...	...
1 3/8	...	...	1 3/8	1	1 1/8
* 1 5/8	1 1/8	1	1 5/8	...	1 1/4
1 1/2	...	1 1/8	...	1 1/4	...
1 3/4	1 1/4	...	...	...	...
1 7/8	...	1 3/4	...	1 3/4	...
2	1 3/8	...	...	...	...
2 1/16	...	1 3/8	...	1 3/8	...
2 3/16	1 1/2	1 3/8	...	1 1/2	...
2 1/4	...	1 1/2	...	...	...
2 3/8	...	1 1/2	...	1 3/8	...
2 1/2	...	1 3/4	...	1 3/4	...
2 5/8	...	1 3/4	...	...	...
2 3/4	...	1 3/4	...	1 3/4	...
2 7/8	...	1 3/4	...	...	...
3	...	2	...	2	...
3 1/8	...	2	...	...	...
3 1/4	...	2 1/4	...	2 1/4	...
3 1/2	...	2 1/2	...	2 1/2	...
3 3/4	...	2 1/2	...	...	...
3 7/8	...	2 1/2	...	2 3/4	...
4	...	2 3/4	...	...	...
4 1/8	...	2 3/4	...	3	...
4 1/4	...	3	...	...	...
4 1/2	...	3	...	...	...
4 3/4	...	3	...	...	...

*These sizes are also for 8-point sockets.

HERBRAND JOBBERS ARE NATION-WIDE TOOL HEADQUARTERS FOR MECHANICS

**BROADEST COVERAGE OF MECHANICS' NEEDS AT
EQUITABLE PRICES • DISTINCTIVE SPECIAL TOOLS
CREATED TO SAVE TIME, LABOR AND ENERGY •
QUICK SERVICE FROM DISTRIBUTORS' STOCKS
LOCATED AT ALL STRATEGIC POINTS • BUY WITH
CONFIDENCE BECAUSE HERBRAND TOOLS ARE
BACKED BY BOTH THE MANUFACTURER AND
JOBBER • LIBERAL DISCOUNT TO DEALERS
AND MECHANICS**

●

**HERBRAND JOBBERS MAINTAIN FOR YOU
A SERVICE WHICH IS NOT DUPLICATED**



THE HERBRAND GUARANTEE

The name Herbrand or "Van-Chrome" on any tool constitutes your unqualified guarantee against defects in both workmanship and materials. This is positive assurance that they will do the job for which they are built, without spreading or breaking. Free replacements will be made on any tools that may prove defective. This guarantee is void if inspection shows that the tools have been abused, ground, heated, subjected to hammering or unreasonable leverage.

List prices only are shown in this catalog. Mechanics and dealers are entitled to a liberal discount.

Herbrand Tools may be purchased through jobbers on the Commercial Credit Company Automotive Equipment Easy Monthly Time Payment Plan.



CATALOG No. 51-M

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THE HERBRAND CORPORATION

MAIN OFFICE AND FACTORIES

FREMONT - OHIO

Numerical Index, Price List and Dealers' Net for Catalog No. 51-M

Effective June 1, 1939

Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price
70 Box	86	\$ 3.60	\$ 2.16	280 Roll	92-125	\$ 7.85	\$ 4.71	405	83	\$ 1.35	\$.81
70 Roll	86	4.00	2.40	281	92-125	1.20	.72	405½	40-83	2.05	1.23
71	86	.90	.54	282	92-125	1.20	.72	406	83	1.70	1.02
72	86	.90	.54	283	92-125	1.50	.90	407	40-83	2.50	1.50
73	86	.90	.54	284	92-125	1.50	.90	410	83	.55	.33
74	86	.90	.54	285	92-125	1.75	1.05	411	83	.60	.36
81	87	.75	.45	*290	133	.65	.39	412	83	.70	.42
82	87	.75	.45	301	126	.80	.48	415	83	.70	.42
83	87	.75	.45	302	126	.80	.48	416	83	.80	.48
84	87	.75	.45	303	126	.80	.48	417	83	1.10	.66
85	87	.80	.48	309	76-88	1.05	.63	418	83	1.65	.99
86	87	.80	.48	310	76	.50	.30	420	83	.55	.33
87	87	.90	.54	311	76	.55	.33	421	83	.60	.36
88	87	.90	.54	311A	76-88	.75	.45	425	40	1.30	.78
89	87	1.00	.60	312	76	.80	.48	426	40	1.50	.90
97	87	5.90	3.54	313	76	.95	.57	427	40	2.00	1.20
98	87	8.10	4.86	314	76	1.00	.60	430	83	.55	.33
99	87	9.25	5.55	315	76	1.00	.60	431	83	.60	.36
*110-B	152	.50	.30	315A	76	1.20	.72	440	82	.45	.27
*110-S	152	.55	.33	316	76	1.35	.81	441	82	.45	.27
*112-B	152	.60	.36	317	76	1.55	.93	442	82	.45	.27
*112-S	152	.65	.39	318	76	1.20	.72	443	82	.55	.33
*113-B	152	.85	.51	319	76	1.65	.99	444	82	.60	.36
*113-S	152	.95	.57	320	76	1.80	1.08	445	82	.65	.39
130	145	4.10	2.46	321	76	2.05	1.23	446	82	.70	.42
132	145	.80	.48	322	76	2.60	1.56	447	82	.80	.48
133	145	.40	.24	323	76	2.80	1.68	450	82	.45	.27
134	145	.25	.15	330	79	.50	.30	451	82	.60	.36
135	145	.20	.12	331	79	.60	.36	452	82	.80	.48
140	23	.95	.57	332	79	.65	.39	453	82	1.00	.60
141	23	2.05	1.23	333	79	.50	.30	460	82	.70	.42
145	150	.80	.48	334	79	.70	.42	461	82	.95	.57
*151-B	73	.35	.21	335	79	.85	.51	462	82	1.25	.75
*151-S	73	.40	.24	336	79	.90	.54	463	40-82	1.50	.90
152	73	4.00	2.40	336T	90	.70	.42	464	40-82	1.70	1.02
155	63	3.20	1.92	337	79	1.00	.60	465	40-82	1.95	1.17
158	39	3.30	1.98	338	79	1.00	.60	470	82	.45	.27
163	151	2.25	1.35	339	79	1.20	.72	471	82	.60	.36
164	73	2.00	1.20	340	79	1.30	.78	480	82	1.25	.75
166	74	1.80	1.08	343	80	1.00	.60	481	82	1.95	1.17
166½	74	2.00	1.20	344	80	1.25	.75	482	82	2.70	1.62
167	74	1.35	.81	345	149	1.20	.72	484	41-82	2.90	1.74
167½	74	1.40	.84	346	150	1.20	.72	485	41-82	2.10	1.26
168	74	1.60	.96	347	148	1.65	.99	486	83	2.30	1.38
176	143	.50	.30	350	79	4.65	2.79	487	83	2.65	1.59
177	75	2.90	1.74	351	79	.80	.48	496	39	2.00	1.20
179	75	1.70	1.02	352	79	.80	.48	496B	39	.50	.30
182	128	2.00	1.20	353	79	.85	.51	550	65	3.35	2.01
183	128	3.30	1.98	354	79	.90	.54	551	65	1.25	.75
186	129	2.10	1.26	355	79	1.05	.63	552	65	.40	.24
187	104	2.10	1.26	358	80	.60	.36	553	65	.40	.24
188	129	3.30	1.98	359	80	.70	.42	554	65	.40	.24
*190	134	2.60	1.56	360 Box	80	3.45	2.07	555	65	.45	.27
*191	134	2.10	1.26	360 Roll	80	4.00	2.40	556	65	.45	.27
193	132	1.70	1.02	360½ Box	80	4.75	2.85	557	65	.45	.27
194	132	1.90	1.14	360½ Roll	80	5.45	3.27	560	65	5.40	3.24
195	126	1.20	.72	361	80	.70	.42	561	65	1.50	.90
196	126	1.30	.78	362	80	.70	.42	562	65	.60	.36
197	126	1.30	.78	363	80	.85	.51	563	65	.60	.36
198	134	1.75	1.05	364	80	1.20	.72	564	65	.60	.36
199	133	3.25	1.95	370	62	2.05	1.23	565	65	.70	.42
241	94-127	3.10	1.86	371	62	2.05	1.23	566	65	.70	.42
242	94-127	3.30	1.98	372	62	2.05	1.23	567	65	.70	.42
243	94-127	3.30	1.98	375	62	6.00	3.60	570	65	8.75	5.25
251	127	2.90	1.74	390	149	1.80	1.08	570½	65	9.45	5.67
261	126	1.40	.84	390C	149	.35	.21	575	56	3.30	1.98
262	126	1.40	.84	400	83	.55	.33	576	56	4.15	2.49
270	130	4.10	2.46	401	83	.55	.33	577	56	5.00	3.00
271	125	1.60	.96	402	83	.60	.36	578	56	5.80	3.48
272	128	2.30	1.38	403	83	.70	.42	580	65	6.80	4.08
276	75	.75	.45	404	83	.90	.54	580½	65	7.50	4.50

Items marked with an asterisk (*) are subject to an addition of 10% to the jobbers' net prices in the States of Montana, Wyoming, Colorado, New Mexico, and all other States west to the Pacific Coast, including El Paso, Texas.

Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price
581	65	\$ 2.00	\$ 1.20	845	69	\$ 3.30	\$ 1.98	950	102	\$ 6.20	\$ 3.72
582	65	.75	.45	846	68	12.75	7.65	951	102	7.75	4.65
583	65	.75	.45	846LC	68	3.30	1.98	952	102	7.75	4.65
584	65	.75	.45	846LP	68	1.00	.60	953	102	8.50	5.10
585	65	.85	.51	846S	68	9.00	5.40	954	102	8.50	5.10
586	65	.85	.51	846SC	68	3.30	1.98	963	102	3.30	1.98
587	65	.85	.51	846SP	68	1.00	.60	964	102	4.15	2.49
590	65	15.55	9.33	847	61	6.65	3.99	966	102	5.55	3.33
590 1/2	65	16.45	9.87	850	54	18.20	10.92	967	102	6.00	3.60
652	145	1.90	1.14	851	54	13.30	7.98	968	102	7.25	4.35
653	145	.90	.30	852	54	.65	.39	969	102	7.55	4.53
654	145	2.10	1.26	853	54	.65	.39	970	102	7.75	4.65
655	145	.60	.36	854	54	.80	.48	971	102	9.00	5.40
657	41-145	3.75	2.25	855	54	.80	.48	972	102	9.00	5.40
750	41-145	1.00	.60	856	54	1.00	.60	974	102	9.65	5.79
750 1/2	71	6.50	3.90	857	54	1.00	.60	1021	95	.65	.39
750C	71	.50	.30	860	55-59	15.00	9.00	1023	95	.75	.45
752	71	.40	.24	860 1/2	55-59	7.50	4.50	1025	95	.90	.54
753	71	.40	.24	861	55-59	4.15	2.49	1025 Box	95	7.90	4.74
754	71	.45	.27	861S	55-59	1.60	.96	1025 Roll	95	8.80	5.28
755	71	.45	.27	862	52	5.60	3.36	1025A Box	95	10.70	6.42
756	71	.50	.30	863	57	59.00	35.40	1025A Roll	95	11.80	7.08
758	71	.55	.33	864	60	6.25	3.75	1025B Box	95	14.40	8.64
759	71	2.75	1.65	864C	60	2.50	1.50	1025B Roll	95	15.70	9.42
760	71	2.90	1.74	865	60	4.55	2.73	1025C Box	95	7.90	4.74
760C	71	.50	.30	866	58	18.50	11.10	1025C Roll	95	8.80	5.28
770 Box	72	7.70	4.62	866A	58-59	4.20	2.52	1027	95	1.10	.66
770 Roll	72	8.30	4.98	866B	58-59	1.60	.96	1027C	95	1.10	.66
771	72	1.00	.60	866C	58	2.00	1.20	1027F	95-122	1.10	.66
772	72	1.05	.63	866H	58	2.20	1.32	1028S	95	1.25	.75
773	72	1.05	.63	866J	58-59	3.70	2.22	1029	95	1.25	.75
774	72	1.10	.66	866LA	59	6.50	3.90	1030	95	1.25	.75
775	72	1.10	.66	866P	59	6.50	3.90	1031	95	1.70	1.02
776	72	1.20	.72	866S	59	6.50	4.02	1033	95	1.70	1.02
777	72	1.20	.72	866SJ	59	6.00	3.60	1033A	95	1.70	1.02
780	149	1.70	1.02	866V	58	2.30	1.38	1033C	95	2.30	1.38
810	62	1.25	.75	867	59	11.30	6.78	1034	95	2.30	1.38
811	62	1.25	.75	867A	56-59	6.60	3.96	1034A	95	2.30	1.38
812	62	1.25	.75	867J	56-59	3.00	1.80	1035	95	2.30	1.38
813	62	1.25	.75	870	53	15.40	9.24	1037	95	3.00	1.80
814	63	4.25	2.55	871	53	20.40	12.24	*1050X	139	1.50	.90
815	63	1.50	.90	872	52	5.80	3.48	*1051X	139	1.60	.96
816	63	1.50	.90	873	52	15.00	9.00	1052X	139	3.30	1.98
817	63	1.50	.90	880	70	11.75	7.05	*1055X	139	1.75	1.05
820	63	3.75	2.25	880 1/2	70	12.45	7.47	*1110	138	.50	.30
822	38	12.00	7.20	881	70	1.10	.66	*1112	138	.50	.30
825	46	15.00	9.00	882	70	1.65	.99	*1113	138	.50	.30
825A	122	4.10	2.46	883	70	1.65	.99	*1114	138	.50	.30
825C	46	16.60	9.96	884	70	1.65	.99	*1120	142	.75	.45
825F	47	17.50	10.50	885	70	1.90	1.14	*1121	142	.75	.45
825G	47	19.10	11.46	886	70	1.90	1.14	*1124	142	1.25	.75
825H	46-47	1.60	.96	887	70	1.90	1.14	*1125	141	1.00	.60
825V	47	8.50	5.10	895	72	7.50	4.50	*1126	141	1.10	.66
825-5	46	2.10	1.26	897	70	3.30	1.98	*1126T	141	1.40	.84
825-6	47	2.10	1.26	898	72	3.10	1.86	*1127	141	1.15	.69
825-7	47	1.70	1.02	899	72	3.10	1.86	*1127T	141	1.45	.87
825-8	47	.60	.36	920	102	4.55	2.73	*1128	137	2.10	1.26
825-10	48	.65	.39	921	102	6.25	3.75	*1129	137	4.60	2.76
825-11	48	.65	.39	923	102	2.90	1.74	*1130	144	2.50	1.50
825-12	48	.65	.39	924	102	3.75	2.25	1131	143	.30	.18
825-13	48	.65	.39	927	102	5.00	3.00	1132	148	.50	.30
825-15	48	2.50	1.50	928	102	5.70	3.42	*1133	144	1.40	.84
830	50	9.10	5.46	929	102	6.05	3.63	*1134	140	1.70	1.02
831	50	18.00	10.80	930	102	6.20	3.72	1135	142	1.30	.78
832	51	27.50	16.50	931	102	7.50	4.50	1136	147	2.90	1.74
833	61	4.55	2.73	932	102	7.50	4.50	1137	147	3.60	2.16
835A	49	.40	.24	934	102	8.15	4.89	1137A	147	5.70	3.42
835P	49	12.00	7.20	943	102	2.90	1.74	1137B	147	5.70	3.42
837	49	1.25	.75	944	102	3.75	2.25	1138	147	1.50	.90
837R	61	2.10	1.26	945	102	4.55	2.73	1139A	148	.90	.54
839	69	8.25	4.95	946	102	4.55	2.73	1139B	148	.90	.54
840	69	9.00	5.40	947	102	5.00	3.00	1139C	148	.90	.54
842	69	9.00	5.40	948	102	5.70	3.42	1142	144	3.25	1.95
844	69	10.00	6.00	949	102	6.05	3.63	1142H	144	1.00	.60

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Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price		
1145	143	\$ 2.00	\$ 1.20	1937	105	\$ 2.20	\$ 1.32	3700	Roll	100	\$ 5.65	\$ 3.39	
1147	41-147	2.75	1.65	1939	105	2.20	1.32	3701	Box	100	2.40	1.44	
1148	41-147	3.65	2.19	1940	107	1.40	.84	3701	Bag	100	2.55	1.53	
*1150A	138	1.95	1.17	1941	105	2.10	1.26	3701	Roll	100	2.80	1.68	
*1150B	138	1.95	1.17	1945	107	2.35	1.41	3702	Box	100	8.95	5.37	
*1150C	138	1.50	.90	1946	107	1.65	.99	3702	Roll	100	10.05	6.03	
*1150D	138	2.30	1.38	1947	108	8.70	5.22	3703	Box	101	2.30	1.38	
*1150E	138	1.50	.90	1947W	108	7.10	4.26	3703	Bag	101	2.45	1.47	
*1150T	138	5.40	3.24	1955	118	.70	.42	3703	Roll	101	2.70	1.62	
*1152F	122	3.05	1.83	1956	150	.80	.48	3704	Box	100	6.55	3.93	
*1152G	108	3.05	1.83	1957	109	1.05	.63	3704	Roll	100	7.45	4.47	
*1152T	138	7.70	4.62	1959	108	1.35	.81	3723	100	.75	.45		
1212	93	.85	.51	1960	106	1.50	.90	3725B	100	.85	.51		
1214	93	.90	.54	2144	106	2.30	1.38	3727	100	.95	.57		
1216	93	1.00	.60	2144	106	.80	.48	3727A	100	.95	.57		
1218	93	1.20	.72	2145	106	.80	.48	3729A	100	1.10	.66		
1220	93	1.30	.78	2146	104	1.40	.84	3731B	100	1.30	.78		
1222	93	1.50	.90	2150	125	1.40	.84	3733C	100	1.60	.96		
1224	93	1.65	.99	2329	124	2.50	1.50	3901	Box	96	7.80	4.68	
1225	Box	4.40	2.64	2331	121	2.20	1.32	3901	Roll	96	8.70	5.22	
1225	Roll	4.90	2.94	*2331-60	121	1.80	1.08	3902	Box	96	6.60	3.96	
1226	93	1.75	1.05	*2332	124	.80	.48	3902	Roll	96	7.50	4.50	
1227	Box	7.55	4.53	2333	124	1.30	.78	3925	96	1.00	.60		
1227	Roll	8.15	4.89	2333V	124	2.20	1.32	3925	96	1.10	.66		
1228	93	1.85	1.11	2335	104	1.80	1.08	3927	96	1.20	.72		
1229	Box	93	14.15	8.49	2336	121	3.50	2.10	3929	96-122	1.25	.75	
1229	Roll	93	14.75	8.85	2342	123	1.40	.84	3931	96	1.40	.84	
1230	93	2.15	1.29	2343	120	1.40	.84	3933	96	1.85	1.11		
1231	Box	93	18.95	11.37	2343-60	120	1.60	.96	3935	96	3.00	1.80	
1231	Roll	93	19.55	11.73	2344V	117	1.90	1.14	3937	96	3.70	2.22	
1232	93	2.40	1.44	2347	135	2.20	1.32	3938	96	4.60	2.76		
1234	93	2.40	1.44	2348	113	1.80	1.08	3939	96	4.60	2.76		
1236	93	3.50	2.10	2349	113	1.80	1.08	4723	100	.70	.42		
1240	93	3.50	2.10	2349T	113	2.00	1.20	4725B	100	.80	.48		
1242	93	4.20	2.52	2350	116	1.30	.78	4727A	100	.90	.54		
1244	93	4.20	2.52	2353	115	.90	.54	4920	Box	98	3.10	1.86	
1246	93	4.20	2.52	2354	115	.90	.54	4920	Roll	98	3.50	2.10	
1420	Box	94	12.15	7.29	2355	117	1.70	1.02	4923	98	.95	.57	
1420	Roll	94	13.00	7.80	2356V	116	3.50	2.10	4925	98	1.05	.63	
1423	94	.80	.48	2357	112	.80	.48	4927	98	1.10	.66		
1425	94	1.00	.60	2358	112	1.00	.60	5720	Box	101	5.15	3.09	
1427	94	1.20	.72	2359	123	1.60	.96	5720	Roll	101	5.85	3.51	
1429	94	1.45	.87	2360	113	5.80	3.48	5721	Box	101	7.45	4.47	
1431	94	1.90	1.14	2362	116	1.65	.99	5721	Roll	101	8.55	5.13	
1431A	94	1.90	1.14	2363	117	2.50	1.50	5723	101	.80	.48		
1433	94	2.50	1.50	2364	115	8.25	4.95	5725B	101	.90	.54		
1435	94	3.30	1.98	2365	114	2.10	1.26	5727	101	1.00	.60		
1721	95	.65	.39	2366	119	7.15	4.29	5729	101	1.15	.69		
1722	95	.65	.39	2367	118	7.60	4.56	5731A	101	1.30	.78		
1723	95	.65	.39	2368	123	1.80	1.08	5920	Box	97	5.65	3.39	
1723A	95	.75	.45	2369	114	3.30	1.98	5920	Roll	97	6.35	3.81	
1725	95	.90	.54	2370	111	19.00	11.40	5923	97	.90	.54		
1725A	95	.90	.54	2370A	111	2.40	1.44	5925	97	1.00	.60		
1725B	95	.90	.54	2370D	111	2.70	1.62	5927	97	1.10	.66		
1726	95	1.10	.66	2370P	111	3.00	1.80	5929	97	1.25	.75		
1727	95	1.10	.66	2370S	111	4.80	2.88	5931	97	1.40	.84		
1728	95	1.25	.75	2373	132	1.90	1.14	6723	101	.70	.42		
1729	95	1.25	.75	2374	135	2.20	1.32	6725B	101	.75	.45		
1731	95	1.70	1.02	2375	120	2.75	1.65	6727A	101	.85	.51		
1731A	95	1.70	1.02	2376	112	8.30	4.98	6820	Box	99	13.70	8.22	
1731B	95	1.70	1.02	2381	130	1.80	1.08	6820	Roll	99	14.40	8.64	
1733	95	2.30	1.38	2382	118	1.80	1.08	6823	99	2.30	1.38		
1734	95	2.30	1.38	2383-60	123	1.50	.90	6825	99-133	2.50	1.50		
1735	95	3.00	1.80	2384	113	1.65	.99	6827	99	2.70	1.62		
1736	95	3.00	1.80	2384T	113	2.05	1.23	6827V	99-122	2.70	1.62		
1737	95	3.00	1.80	2385	114	2.05	1.23	6829	99	3.00	1.80		
1821	92	.90	.54	2386	114	2.05	1.23	6831	99	3.20	1.92		
1823	92	.90	.54	2387	114	2.05	1.23	6920	Box	98	2.95	1.77	
1825	92	1.10	.66	2390	119	13.20	7.92	6920	Roll	98	3.35	2.01	
1827	92	1.10	.66	2410	103	8.00	4.80	6923	98	.90	.54		
1829	92	1.30	.78	2415	103	4.65	2.79	6925	98	1.00	.60		
1831	92	1.30	.78	2416	103	2.25	1.35	6927	98	1.05	.63		
1836	Roll	92	7.30	4.38	2417	103	2.45	1.47	7720	Box	99	6.70	4.02
1936	105	1.30	.78	3700	Box	100	4.95	2.97	7720	Roll	99	7.40	4.44

Items marked with an asterisk (*) are subject to an addition of 10% to the jobbers' net prices in the States of Montana, Wyoming, Colorado, New Mexico, and all other States west to the Pacific Coast, including El Paso, Texas.

Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price
7723	99	\$ 1.10	\$.66	BP-24	146	\$ 2.00	\$.120	DS-34	22	\$ 1.70	\$.102
7725B	99	1.20	.72	BP-32	146	2.25	1.35	DS-36	22	1.95	1.17
7727	99	1.30	.78	BP-40	146	2.60	1.56	DS-40	18	2.50	1.50
7729	99	1.45	.87	BP-48	146	3.00	1.80	DSH-5	22	.20	.12
7731A	99	1.65	.99	BP-8H	146	4.80 doz.	2.88	DSH-6	22	.20	.12
				BP-12H	146	4.80 doz.	2.88	F-5	88	2.00	1.20
				BP-16H	146	4.80 doz.	2.88	G-0015 (pkg. 6)	84	.90	.54
				BP-20H	146	4.80 doz.	2.88	G-002 (pkg. 6)	84	.90	.54
				BP-24H	146	4.80 doz.	2.88	G-004 (pkg. 6)	84	.90	.54
				BP-32H	146	5.40 doz.	3.24	G-006 (pkg. 6)	84	.90	.54
				BP-40H	146	5.40 doz.	3.24	G-008 (pkg. 6)	84	.90	.54
				BP-48H	146	5.40 doz.	3.24	G-013 (pkg. 6)	84	.90	.54
				BR-15 Box	131	28.55	17.13	G-015 (pkg. 6)	84	.90	.54
				BR-15 Roll	131	30.25	18.15	G-018 (pkg. 6)	84	.90	.54
				C-3	81	2.40	1.44	G-024 (pkg. 6)	84	.90	.54
				C-5	81	5.55	3.33	G-025 (pkg. 6)	84	.90	.54
				C-6	81	3.10	1.86	G-032 (pkg. 6)	84	.90	.54
				C-7	83	4.75	2.85	G-035 (pkg. 6)	84	.90	.54
				C-8	40	5.20	3.12	G-3	85	83.00	49.80
				C-9	40-82	5.65	3.39	G-7	23	84	1.65
				C-10	81	2.65	1.59	G-8	84	1.65	.99
				C-15	81	10.30	6.18	G-9	84	2.50	1.50
				C-20	9	27.00	16.20	G-10	84	1.25	.75
				C-20 1/2	9	28.00	16.80	G-11	84	1.65	.99
				C-22	9	.65	.39	G-12	84	1.65	.99
				C-23	9	.65	.39	G-14	84-127	1.65	.99
				C-24	9	.75	.45	G-20	84	2.50	1.50
				C-25	9	1.00	.60	G-25	84	3.30	1.98
				C-26	9	.75	.45	G-30	85	.40	.24
				C-27	9	.75	.45	G-31	85	.70	.42
				C-28	9	.80	.48	GB-0015 (pkg. 6)	85	2.40	1.44
				C-29	9	.80	.48	GB-002 (pkg. 6)	85	2.40	1.44
				C-30	9	.80	.48	GB-004 (pkg. 6)	85	2.40	1.44
				C-31	9	.65	.39	GB-006 (pkg. 6)	85	2.40	1.44
				C-32	9	.75	.45	GB-008 (pkg. 6)	85	2.40	1.44
				C-33	9	.75	.45	GB-013 (pkg. 6)	85	2.40	1.44
				C-34	9	1.15	.69	GB-015 (pkg. 6)	85	2.40	1.44
				C-35	9	1.15	.69	GB-018 (pkg. 6)	85	2.40	1.44
				C-36	9	.90	.54	GB-024 (pkg. 6)	85	2.40	1.44
				C-37	9	.90	.54	GB-025 (pkg. 6)	85	2.40	1.44
				C-38	9	1.65	.99	GB-032 (pkg. 6)	85	2.40	1.44
				C-39	9	1.25	.75	GB-035 (pkg. 6)	85	2.40	1.44
				C-40	9	.80	.48	GS-0015	85	4.00	2.40
				C-41	9	.65	.39	GS-002	85	3.30	1.98
				C-42	9	.75	.45	GS-003	85	2.60	1.56
				C-66	74	.85	.51	GS-004	85	2.30	1.38
				C-79	75	.85	.51	GS-005	85	2.00	1.20
				CB-129	81	120.00	72.00	GS-006	85	2.00	1.20
				D-7 Box	78	6.15	3.69	GS-007	85	2.00	1.20
				D-7 Roll	78	6.75	4.05	GS-008	85	2.00	1.20
				D-12	78	.65	.39	GS-009	85	2.00	1.20
				D-13	78	.75	.45	GS-010	85	2.00	1.20
				D-14	78	.85	.51	GS-012	85	2.00	1.20
				D-15	78	.75	.45	GS-013	85	2.00	1.20
				D-16	78	1.00	.60	H-1	90	.85	.51
				D-17	78	1.05	.63	H-2	90	.90	.54
				D-18	78	1.10	.66	H-3	90	.90	.54
				DS-7	22	9.60	5.76	H-10	90	1.15	.69
				DS-7 1/2	22	10.30	6.18	H-13	18	6.90	4.14
				DS-8 1/2	22	12.50	7.50	H-21	18	3.80	2.28
				DS-9 1/2	22	15.00	9.00	H-25	18	2.00	1.20
				DS-10	22	1.60	.96	H-29	18	2.55	1.53
				DS-14	22	1.90	1.14	H-31	18	3.15	1.89
				DS-16	22	1.20	.72	H-33	18	.60	.36
				DS-18	22	1.20	.72	H-70 Box	90	3.60	2.16
				DS-20	22	1.25	.75	H-70 Roll	90	4.00	2.40
				DS-22	22	1.25	.75	H-75 Box	90	5.30	3.18
				DS-24	22	1.25	.75	H-75 Roll	90	5.80	3.48
				DS-26	22	1.35	.81	H-80 Box	90	7.60	4.56
				DS-28	22	1.50	.90	H-80 Roll	90	8.30	4.98
				DS-28B	22	1.50	.90	H-126	143	1.55	.93
				DS-30	22	1.60	.96	H-128	18	1.10	.66
				DS-32	22	1.70	1.02	H-130	18	1.15	.69

Items with Prefix

A-390	14	.90	.54	A-391	14	.90	.54	A-392	14	.90	.54
A-393	14	1.25	.75	A-394	14	1.25	.75	A-395	14	1.35	.81
B-3	75	5.35	3.21	BF-1	33	3.75	2.25	BF-2	30	4.15	2.49
BF-3	33	3.75	2.25	BF-4	32	3.75	2.25	BF-5	32	3.75	2.25
BF-6	31	4.15	2.49	BF-7	31	4.15	2.49	BF-8	32	3.75	2.25
BF-9	33	3.75	2.25	BF-10	31	3.75	2.25	BF-11	30	4.15	2.49
BF-12	34	4.55	2.73	BF-13	35	6.60	3.96	BF-14	34	8.30	4.98
BF-15	35	7.90	4.74	BF-16	35	7.90	4.74	BF-17	35	7.90	4.74
BF-18	34	5.00	3.00	BF-19	35	6.60	3.96	BF-20	36	5.80	3.48
BF-21	36	5.40	3.24	BF-22	36	5.00	3.00	BF-23	36	5.00	3.00
BF-24	36	5.00	3.00	BF-25	37	4.50	2.70	BF-26	37	5.00	3.00
BF-27	38	1.50	.90	BF-28	38	1.40	.84	BF-29	39	1.25	.75
BF-30	39	1.25	.75	BF-31	44	35.10	19.83	BF-32	44	42.10	24.03
BF-33	44	57.80	33.51	BF-34	44	64.80	37.71	BF-35	44	140.00	82.38
BF-36	45	180.00	106.05	BF-37	43	9.30	5.58	BF-38	42-43	3.30	1.98
BF-39	42-43	2.50	1.50	BF-40	42-43	2.50	1.50	BF-41	42-43	2.50	1.50
BF-42	42-43	3.00	1.80	BF-43	42-43	3.55	2.13	BF-44	42-43	3.00	1.80
BF-45	42-43	1.65	.99	BF-46	42-43	1.65	.99	BF-47	42-43	2.50	1.50
BF-48	42-43	4.55	2.73	BF-49	42-43	3.10	1.86	BF-50	42-43	3.10	1.86
BF-51	42-43	3.10	1.86	BF-52	42-43	4.65	2.79	BF-53	42-43	6.05	3.63
BF-54	42-43	1.65	.99	BP-8	146	1.65	.99	BP-12	146	1.65	.99
BP-16	146	1.75	1.05	BP-20	146	1.85	1.11				

Items marked with an asterisk (*) are subject to an addition of 10% to the jobbers' net prices in the States of Montana, Wyoming, Colorado, New Mexico, and all other States west to the Pacific Coast, including El Paso, Texas.

Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price
H-131	18	\$ 1.15	\$.69	J-620	10	\$.50	\$.30	S-25	15	\$.85	\$.51
H-132	18	1.15	.69	J-622	10	.60	.36	S-26	23	1.00	.60
H-134	18	1.35	.81	J-624	10	.60	.36	S-27	15	1.00	.60
H-136	18	1.40	.84	J-714	10-135	.75	.45	S-28	15	1.15	.69
H-138	18-143	1.55	.93	J-716	10-135	.80	.48	S-29	15	1.70	1.02
H-140	18	1.65	.99	J-718	10-135	.90	.54	S-31	15	1.85	1.11
H-142	18	1.65	.99	JA-60	12	6.55	3.93	S-32	15	2.30	1.38
H-144	18	1.95	1.17	JA-60½	12	7.25	4.35	S-33	14	.30	.18
H-146	18	2.20	1.32	JA-61	12	17.45	10.47	S-35	14	2.30	1.38
H-148	18	2.30	1.38	JA-61½	12	18.45	11.07	S-36	14	.20	.12
H-152	18	2.50	1.50	JA-62	12	34.40	20.64	S-37	14	1.00	.60
H-156	18	3.45	2.07	JA-62½	12	35.60	21.36	S-39	14	1.00	.60
H-158	18	3.90	2.34	KO-10	48	13.40	8.04	SA-41	14	.80	.48
H-160	18	3.90	2.34	KO-20	48	.90	.54	SA-45	14	1.50	.90
H-164	18	4.60	2.76	KO-24	48	1.00	.60	SA-46	14	1.50	.90
H-170	18	5.40	3.24	KO-24T	48	1.00	.60	SA-47	14	1.50	.90
HA-80	19	27.40	16.44	KO-26	48	1.10	.66	S-50	20	16.00	9.60
HA-80½	19	29.90	17.94	KO-28	48	1.10	.66	S-60	20	2.00	1.20
HA-81	19	42.35	25.41	KO-28H	48	1.10	.66	S-61	20	2.20	1.32
HA-82	19	64.80	39.88	KO-32	48	1.20	.72	S-62	20	2.10	1.26
HA-82½	19	68.30	40.98	KO-36	48	1.50	.90	S-63	20	2.25	1.35
J-10	11	4.25	2.55	KO-40	48	1.90	1.14	S-112	13	.60	.36
J-12	21	5.75	3.45	KO-40T	48	1.90	1.14	S-114	13	.60	.36
J-12A	21	.90	.54	LT-5 Roll	91	9.90	5.94	S-116	13	.60	.36
J-12C	21	1.60	.96	LT-9	91	1.50	.90	S-117	13	.75	.45
J-12H	21	.40	.24	LT-10 Roll	91	16.20	9.72	S-118	13	.75	.45
J-12S	21	8.50	5.10	LT-11	91	1.50	.90	S-118V	13-120	.85	.51
J-13	11	2.60	1.56	LT-12	91	1.50	.90	S-119	13	.75	.45
J-17	11	1.85	1.11	LT-13	91	1.50	.90	S-120	13	.80	.48
J-18	11	2.50	1.50	LT-14	91	1.60	.96	S-121	13-121	.80	.48
J-21	11	1.35	.81	LT-15	91	1.60	.96	S-122	13	.80	.48
J-23	11	.60	.36	M-3	74	4.95	2.97	S-123	13	.85	.51
J-25	11	.70	.42	M-4	74	4.95	2.97	S-124	13-121	.85	.51
J-27	11	.85	.51	M-20	8	1.30	.78	S-125	13	.85	.51
J-29	11	1.15	.69	M-21	8	.90	.54	S-126	13	.85	.51
J-33	11	.25	.15	M-22	8	.60	.36	S-128	13	1.00	.60
J-35	11	2.20	1.32	M-45	8	1.15	.69	S-129	13	1.00	.60
J-36	11	.15	.09	M-606	8	.50	.30	S-130	13	1.00	.60
J-37	10	.75	.45	M-607	8	.50	.30	S-131	13	1.00	.60
J-39	10	.75	.45	M-608	8	.50	.30	S-132	13	1.15	.69
J-41	10-109	1.55	.93	M-609	8	.50	.30	S-134	13	1.25	.75
J-43	130	.85	.51	M-610	8	.50	.30	S-136	13	1.35	.81
J-45	10	1.35	.81	M-611	8	.50	.30	S-138	13	1.45	.87
J-46	10	1.35	.81	M-612	8	.50	.30	S-140	13	1.50	.90
J-47	10	1.35	.81	M-614	8	.50	.30	S-212	13	.60	.36
J-112	10	.50	.30	M-808	8	.50	.30	S-214	13	.60	.36
J-114	10	.50	.30	M-810	8	.50	.30	S-216	13	.75	.45
J-116	10	.50	.30	MA-50	8	7.80	4.68	S-218	13	.75	.45
J-118	10	.50	.30	MA-50½	8	8.30	4.98	S-220	13	.80	.48
J-120	10	.50	.30	MA-55	8	20.40	12.24	S-224	13	.80	.48
J-122	10	.36	.22	MA-55½	8-86	21.40	12.84	S-226	13	.95	.57
J-124	10	.60	.36	MB-3	25	35.00	21.00	S-218	13	2.45	1.47
J-212	10	.50	.30	MC-T	25-28	120.35	72.21	S-318	13	2.45	1.47
J-214	10	.50	.30	MC-2	28	16.00	9.60	S-320	13	2.45	1.47
J-216	10	.50	.30	MC-3	28	23.00	13.80	S-322	13	2.45	1.47
J-312	10	2.40	1.44	MC-57	28	82.00	49.20	S-324	13	2.45	1.47
J-314	10	2.40	1.44	MC-101	26-28	135.00	81.00	S-616	13	.60	.36
J-316	10	2.40	1.44	MC-103	24-25	170.00	102.00	S-618	13	.75	.45
J-318	10	2.40	1.44	MC-104	27-28	140.00	84.00	S-620	13	.80	.48
J-320	10	2.40	1.44	*MT-1	151	5.40	3.24	S-622	13	.80	.48
J-322	10	2.40	1.44	S-10	14	5.25	3.15	S-624	13	.85	.51
J-324	10	2.40	1.44	S-12	21	6.85	4.11	SA-70	16	13.65	8.19
J-414	10	.80	.48	S-12A	21	1.00	.60	SA-71½	16	12.20	7.32
J-416	10	.80	.48	S-12C	21	1.90	1.14	SA-72	16	21.45	12.87
J-418	10	.85	.51	S-12H	21	.45	.27	SA-72½	16	23.95	14.37
J-420	10	.85	.51	S-12S	21	10.00	6.00	SA-73½	16	18.90	11.34
J-422	10	.95	.57	S-13	14	3.15	1.89	SA-74½	17	45.25	27.15
J-424	10	1.00	.60	S-15	14	3.70	2.22	SA-75½	17	41.20	24.72
J-514	10	.80	.48	S-16	15	3.00	1.80	SA-76½	17	80.00	48.00
J-612	10	.50	.30	S-17	15	2.15	1.29	SD-5	77-88	4.30	2.58
J-614	10	.50	.30	S-18	15	4.00	2.40	SD-6	77	5.80	3.48
J-615	10	.50	.30	S-19	15	2.40	1.44	SD-7	77	8.90	5.34
J-616	10	.50	.30	S-21	14	1.70	1.02	SD-8	77-88	7.10	4.26
J-618	10	.50	.30	S-22	14	2.05	1.23	SD-12	77	6.00	3.60

Items marked with an asterisk (*) are subject to an addition of 10% to the jobbers' net prices in the States of Montana, Wyoming, Colorado, New Mexico, and all other States west to the Pacific Coast, including El Paso, Texas.

Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price	Tool No.	Page	List Price	Dealers' Net Price
SD-17	76	\$ 68.40	\$ 41.04	Metal Boxes Only				332-B	79	\$.55	\$.33
*SS-9	136	26.95	16.17	5701½	65	\$ 1.00	\$.60	333-B	79	.35	.21
*SS-14	136	25.05	15.03	5801½	65	1.30	.78	334-B	79	.45	.27
*SS-16	131	39.35	23.61	5901½	65	1.40	.84	335-B	79	.60	.36
T-1	91	1.00	.60	863	57	5.70	3.42	336-B	79	.55	.33
T-2	91	1.10	.66	880½	70	1.30	.78	337-B	79	.75	.45
T-3	91	1.20	.72	BF-100	44	8.00	4.80	338-B	79	.75	.45
T-4	91	1.35	.81	BF-101	44	8.00	4.80	339-B	79	.90	.54
T-5	91	1.45	.87	BF-102	44	16.00	9.60	340-B	79	1.00	.60
T-21	89	.90	.54	DS-7½	22	1.00	.60	D-12-B	78	.30	.18
T-22	89	1.10	.66	DS-8½	22	1.10	.66	D-13-B	78	.45	.27
T-23	89	1.25	.75	DS-9½	22	1.10	.66	D-14-B	78	.50	.30
T-24	89	1.40	.84	HA-80½	19	3.00	1.80	D-15-B	78	.30	.18
T-40 Box	89	4.70	2.82	JA-60½	12	1.30	.78	D-16-B	78	.35	.21
T-70 Roll	91	5.40	3.24	JA-61½	12	1.65	.99	D-17-B	78	.50	.30
T-75 Roll	91	8.50	5.10	JA-62½	12	1.65	.99	D-18-B	78	.55	.33
T-80 Box	89	9.30	5.58	KO-10	48	1.10	.66	Screw Driver Handles Only			
T-80 Roll	89	10.00	6.00	MA-50½	8	1.00	.60	309-H	76	.90	.54
TS-7	73	1.60	.96	MA-55½	8	1.50	.90	310-H	76	.25	.15
TS-12	73	2.50	1.50	MC-2	26-28	16.00	9.60	311-H	76	.25	.15
VL-500	66	10.80	6.48	MC-3	27-28	23.00	13.80	311A-H	76	.40	.24
VL-501	66	7.50	4.50	SA-71½	16	1.30	.78	312-H	76	.55	.33
VL-503	67	14.10	8.46	SA-72½	16	1.65	.99	313-H	76	.55	.33
VL-510	66	1.65	.99	SA-73½	16	1.65	.99	314-H	76	.55	.33
VL-511	66	1.65	.99	SA-74½	17	3.30	1.98	315-H	76	.65	.39
VL-512	66	2.00	1.20	SA-75½	17	3.30	1.98	315A-H	76	.80	.48
VL-513	66	2.00	1.20	SA-76½	17	5.30	3.18	316-H	76	.80	.48
VL-514	66	2.50	1.50					317-H	76	.80	.48
VL-520	66	2.00	1.20					318-H	76	.65	.39
VL-521L	66	.80	.48					319-H	76	1.00	.60
VL-521S	66	.80	.48					320-H	76	1.00	.60
VL-522	66	.80	.48	Screw Driver Blades Only				321-H	76	1.30	.78
VL-530	67	1.65	.99	309-B	76	.20	.12	322-H	76	1.30	.78
X-48	64	7.85	4.71	310-B	76	.25	.15	323-H	76	1.30	.78
XX-3	64	2.55	1.53	311-B	76	.30	.18	330-H	79	.20	.12
XX-5	64	3.80	2.28	311A-B	76	.35	.21	331-H	79	.20	.12
XX-10	64	10.85	6.51	312-B	76	.30	.18	332-H	79	.20	.12
				313-B	76	.40	.24	333-H	79	.20	.12
				314-B	76	.55	.33	334-H	79	.25	.15
				315-B	76	.35	.21	335-H	79	.25	.15
				315A-B	76	.40	.24	336-H	79	.25	.15
				316-B	76	.50	.30	337-H	79	.30	.18
				317-B	76	.70	.42	338-H	79	.30	.18
				318-B	76	.65	.39	339-H	79	.30	.18
				319-B	76	.80	.48	340-H	79	.30	.18
				321-B	76	.75	.45	D-12-H	78	.30	.18
				322-B	76	1.30	.78	D-13-H	78	.30	.18
				323-B	76	1.30	.78	D-14-H	78	.30	.18
				330-B	79	.30	.18	D-15-H	78	.40	.24
				331-B	79	.40	.24	D-16-H	78	.60	.36
								D-17-H	78	.50	.30
								D-18-H	78	.50	.30

Pipe Wrenches

6"	152	1.50	.90
8"	152	1.75	1.05
10"	152	2.25	1.35
12"	152	2.65	1.59
14"	152	3.05	1.83
18"	152	4.35	2.61
24"	152	7.45	4.47
36"	152	15.70	9.42
48"	152	23.50	14.10
60"	152	35.25	21.15

135

183

3.18

20.44

23.67

48

37

11

133

96



**HERBRAND JOBBERS ARE NATION-WIDE
TOOL HEADQUARTERS FOR MECHANICS**

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stocks the complete line***

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